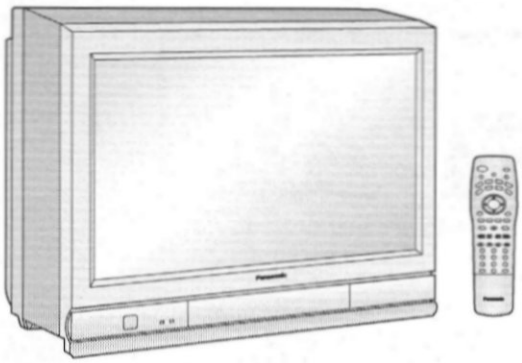
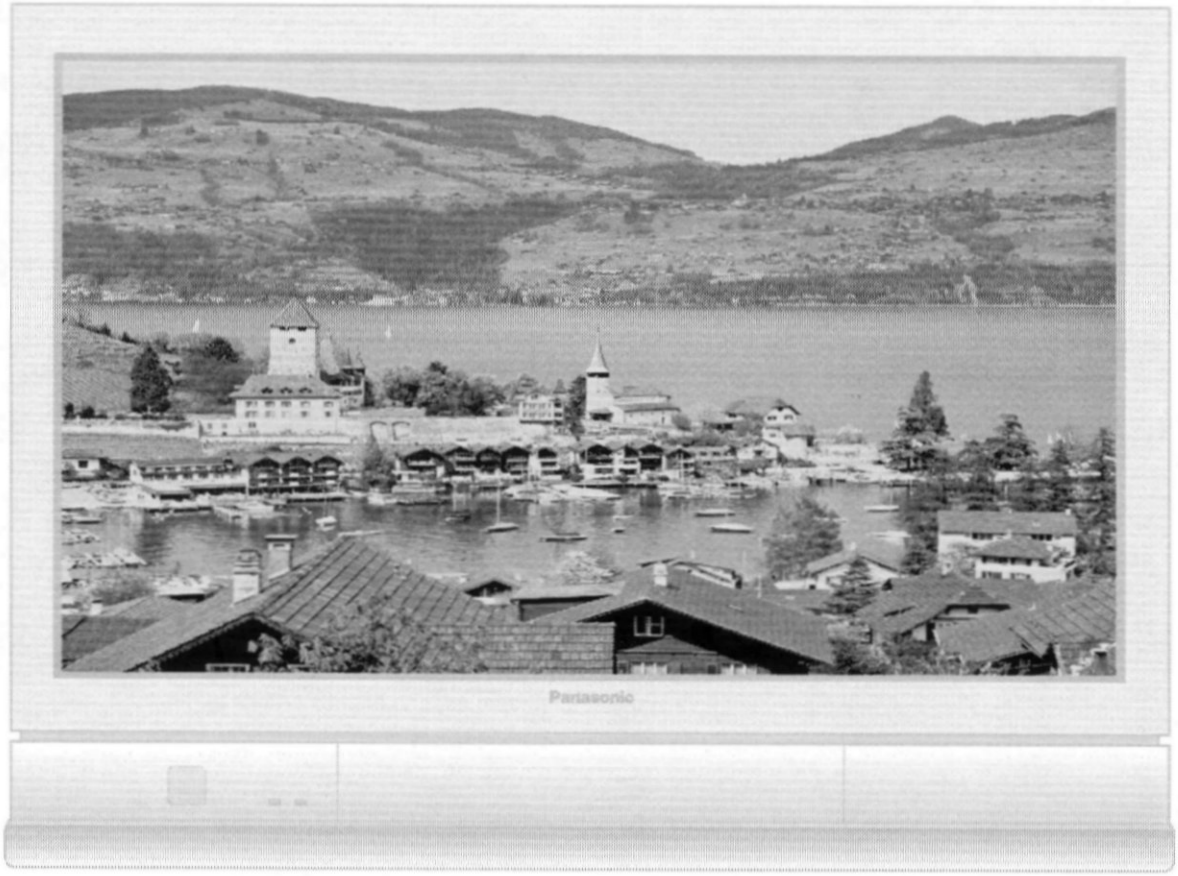


Panasonic®

Wide Screen TV
Operating Instructions

Model No. **CT-30WX50**



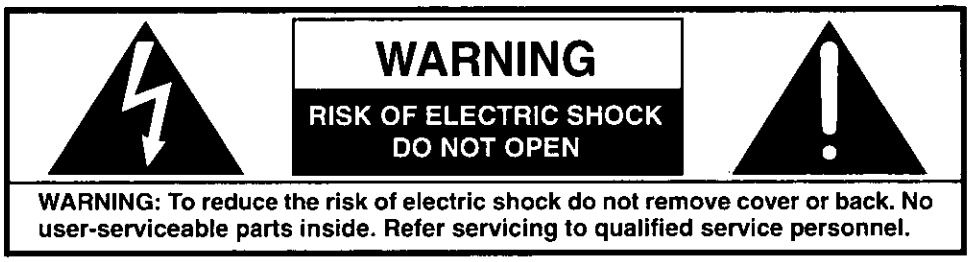
For assistance, please call : 1-888-VIEW-PTV(843-9788)
or send e-mail to : consumerproducts@panasonic.com
or visit us at www.panasonic.com (U.S.A)

For assistance, please call : 787-750-4300 (Puerto Rico)

English

TQBC0278-1

Important Safety Instructions


WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.

Important Safety Instructions

1) Read these instructions
   All the safety and operating instructions should be read before the appliance is operated
2) Keep these instructions
   The safety and operating instructions should be retained for future reference
3) Heed all warnings
   All warnings on the appliance and in the operating instructions should be adhered to
4) Follow all instructions
   All operating and use instructions should be followed
5) Do not use this apparatus near water
   For example, near a bathtub, wash bowl, kitchen sink, or laundry tube, in a wet basement, or near a swimming pool, and the like
6) Clean only with dry cloth
   Do not use liquid cleaners or aerosol cleaners Use a dry cloth for cleaning
7) Do not block any ventilation openings Install in accordance with the manufacture's instructions
   Slots and Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
   This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to
9) Do not defeat the safety purpose of the polarized or grounding-type plug A polarized plug has two blades with one wider than the other A grounding type plug has two blades and a third grounding prong The wide blade or the third prong are provided for your safety If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
11) Only use attachments / accessories specified by the manufacturer
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over
    Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn

13) Unplug this apparatus during lightning storms or when unused for long periods of time
    This will prevent damage to the product due to Lightning and power-line surges
14) Refer all servicing to qualified service personnel Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped

CAUTION · This TV set for use only with TV-stand (Model TY-S30WX50) Use with other stand is capable of resulting in stability causing possible injury

Dear Panasonic Customer

Welcome to the Panasonic family of customers We hope that you will have many years of enjoyment from your new color television set
To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference
Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the back cover of these instructions

Visit our Panasonic Web Site for USA *www panasonic com*

For assistance, please call : 1-888-VIEW-PTV(843-9788) **or send e-mail to consumerproducts@panasonic.com** **or visit us at www.panasonic.com** **(U S.A)**
For assistance, please call : 787-750-4300 **(Puerto Rico)**

FCC CAUTION
Pursuant to 47CFR, Part 15 21 of the FCC rules, any changes or modifications to this TV not expressly approved by Matsushita Electric Corporation of America could result in harmful interference and would void the user's authority to operate this device

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Installation

Receiver Location

This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.
Use of some types of fluorescent lighting can reduce remote control transmitter range.
Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.
To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

Optional External Equipment

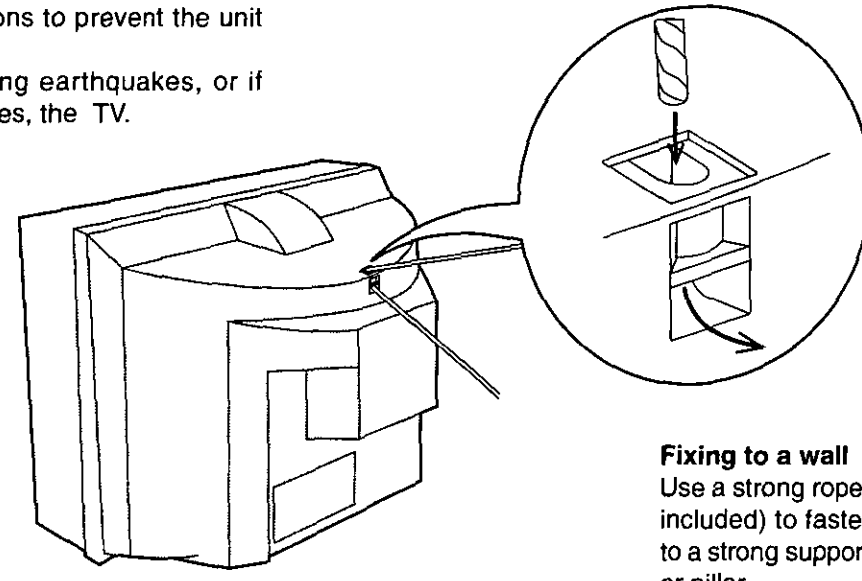
The Video/Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store. Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

AC Power Supply Cord

CAUTION: To prevent electric shock, match wide blade of plug to wide slot of AC outlet and fully insert. Do not use this (polarized) plug with a receptacle or other outlet unless the blade can be fully inserted to prevent blade exposure.

Safety Precaution

Please take safety precautions to prevent the unit from falling over.
The unit may fall over during earthquakes, or if someone stands on, or shakes, the TV.

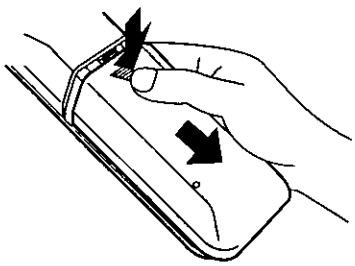


Fixing to a wall
Use a strong rope or a chain (not included) to fasten the TV firmly to a strong support such as a wall or pillar.

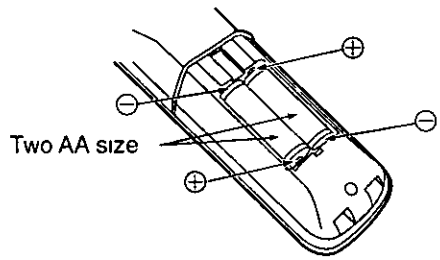
Remote Control Battery Installation

Requires two AA batteries

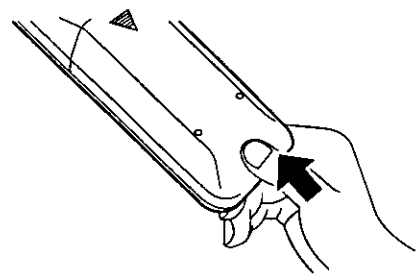
1 Turn the Transmitter face down Remove top cover by pressing down on marking and sliding cover off in the direction indicated



2 Install the batteries as shown in the battery compartment (Polarity + or – must match the markings in the compartment)



3 Replace the cover and slide in reverse until the lock snaps



Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life

Note: In order to maximize the life of the batteries, the lighted buttons on the Remote Control can be turned OFF and ON by pressing R-TUNE and RECALL at the same time.

⚠ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter

Observe the following precautions:

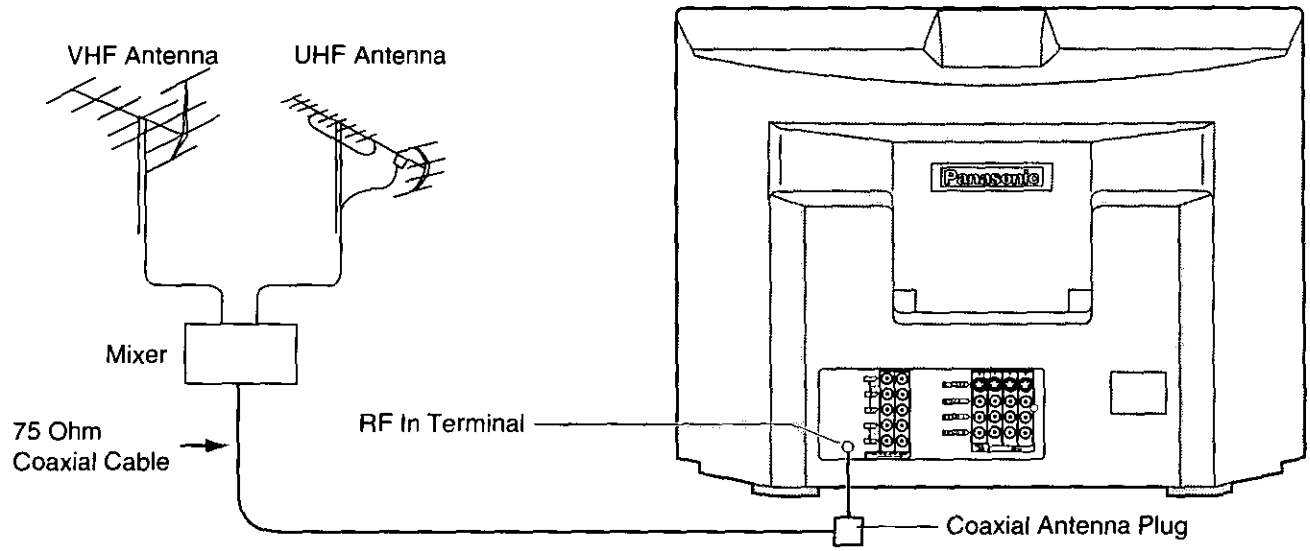
1 Batteries should always be replaced as a pair Always use new batteries when replacing the old set
2 Do not combine a used battery with a new one
3 Do not mix battery types (example "Zinc Carbon" with "Alkaline")
4 Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries
5 Battery replacement is necessary when remote control acts sporadically or stops operating the TV set

Helpful Hint:

Whenever you remove the batteries, **you may need to reset the remote control infrared codes** We recommend that you record the code on page 62, prior to setting up the remote

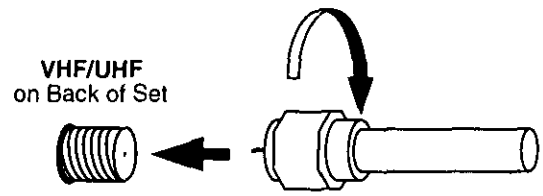
Connecting the Antenna Cable to the RF In Terminal

Antenna Connection - For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV.



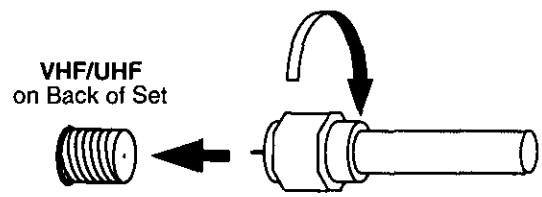
Antenna / Cable Connection

Incoming Cable From Home Antenna (75 Ohm)



Incoming 75 Ohm Cable (From Cable Company)

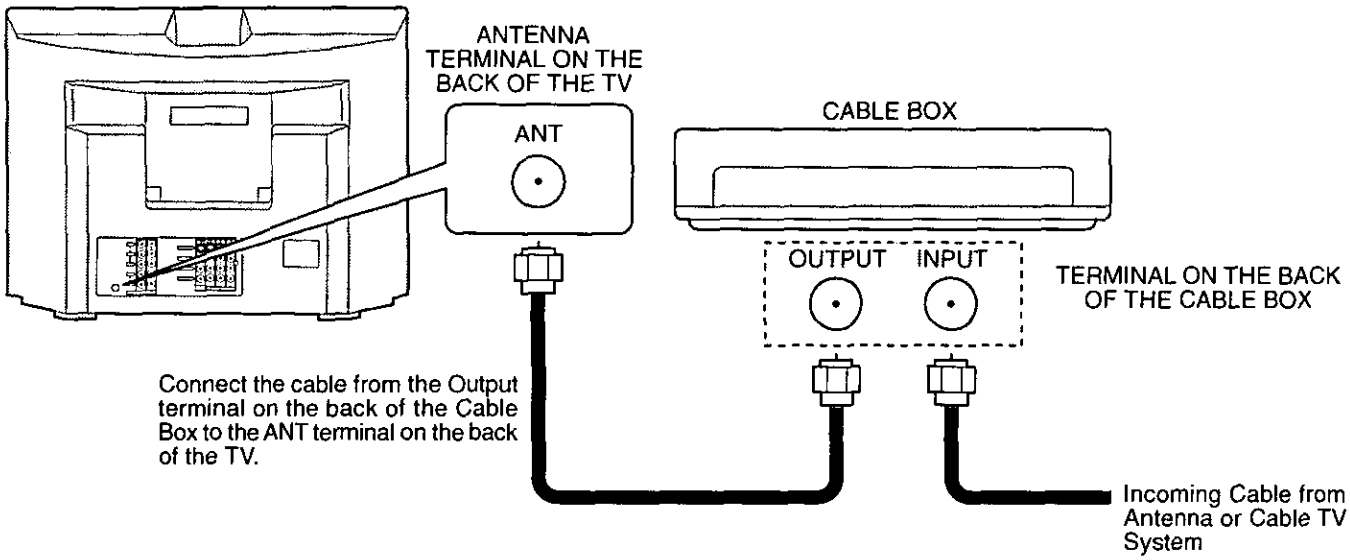
Cable Connection - For reception of cable channels (01 - 125) connect the cable supplied by your local cable company Antenna Mode must be set to CABLE (Refer to Antenna Mode section)



Note:
Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels A cable converter box is required for proper reception Check with your local Cable company for its compatibility requirements

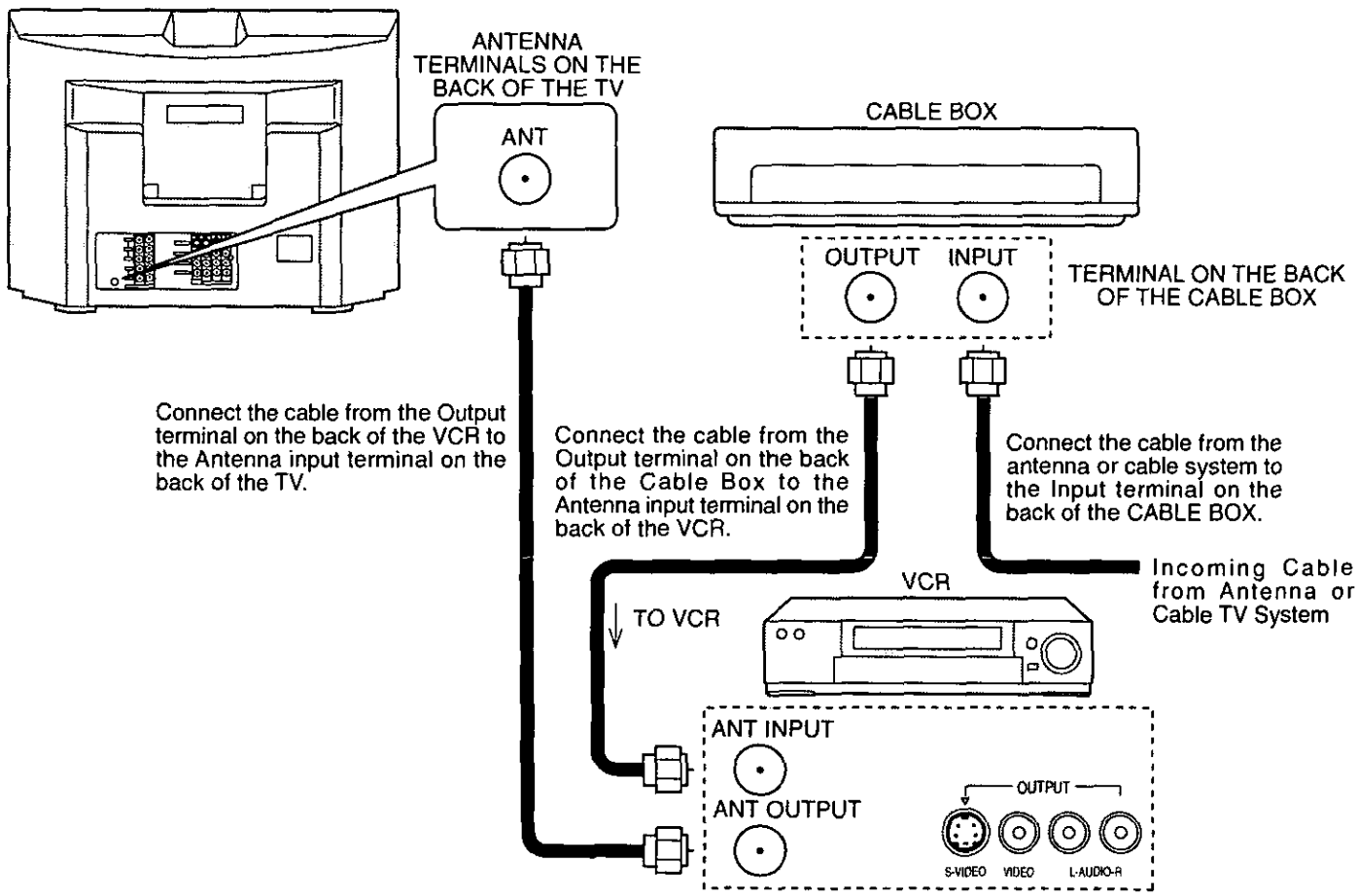
Antenna Connection (Cable Box, no VCR)

Use this configuration when connecting the TV to a cable TV system using a Cable Box.


ANTENNA TERMINAL ON THE BACK OF THE TV
ANT
CABLE BOX
OUTPUT
INPUT
TERMINAL ON THE BACK OF THE CABLE BOX
Connect the cable from the Output terminal on the back of the Cable Box to the ANT terminal on the back of the TV.
Incoming Cable from Antenna or Cable TV System

Antenna Connection (Cable Box, and VCR)

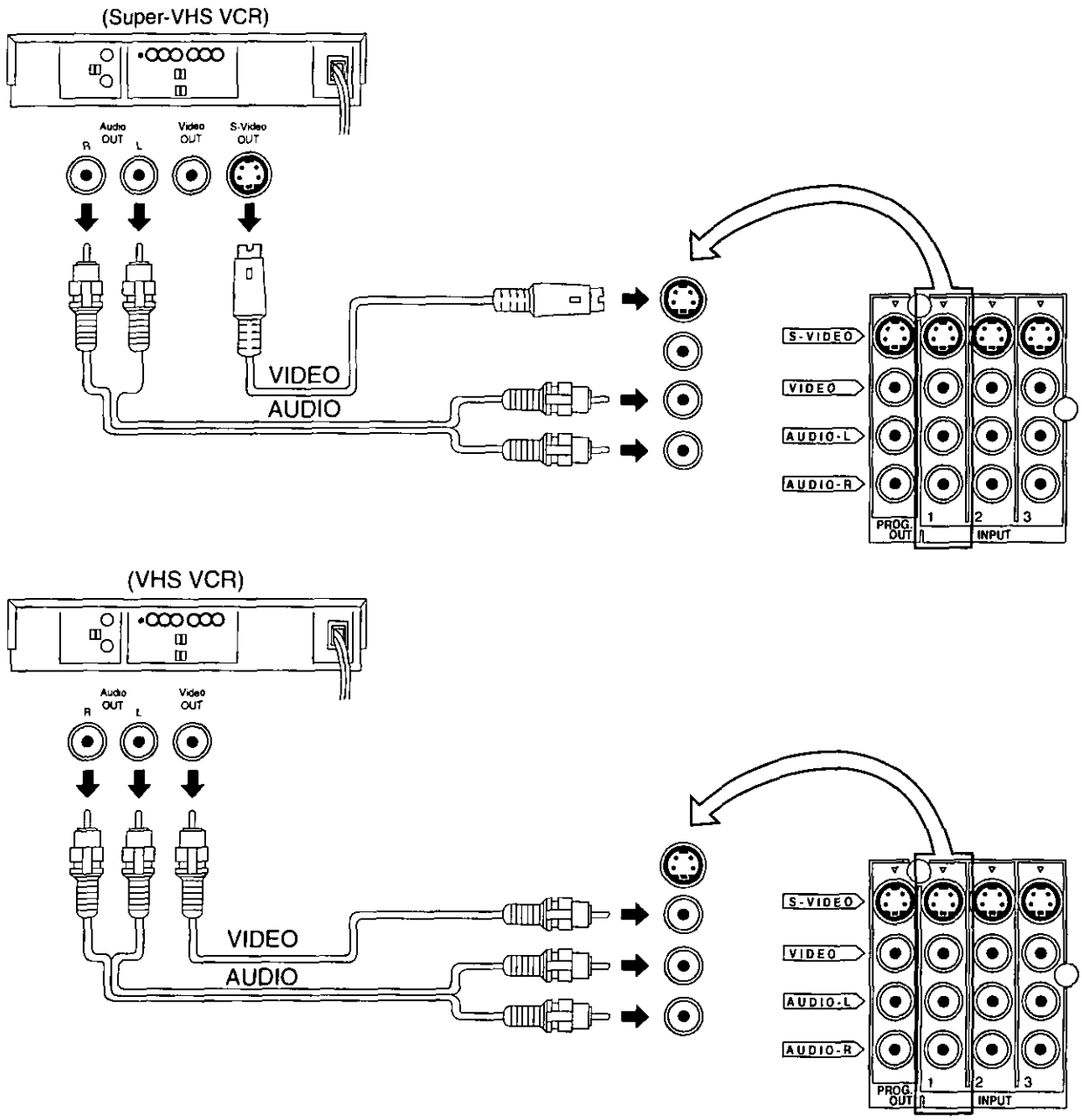
Use this configuration when connecting the TV to a cable TV system using a Cable Box and VCR.


ANTENNA TERMINALS ON THE BACK OF THE TV
ANT
CABLE BOX
OUTPUT
INPUT
TERMINAL ON THE BACK OF THE CABLE BOX
Connect the cable from the Output terminal on the back of the VCR to the Antenna input terminal on the back of the TV.
Connect the cable from the Output terminal on the back of the Cable Box to the Antenna input terminal on the back of the VCR.
Connect the cable from the antenna or cable system to the Input terminal on the back of the CABLE BOX.
Incoming Cable from Antenna or Cable TV System
VCR
TO VCR
ANT INPUT
ANT OUTPUT
OUTPUT
S-VIDEO
VIDEO
L-AUDIO-R

Note: When the antenna cable is connected to the TV antenna terminal via a cable box or VCR, set the TV channel to CH3 or CH4, cable. This does not apply when signal is input from VIDEO INPUT.

How to connect the "1, 2, 3, 4" input terminals

Connects VCRs and other peripheral equipment



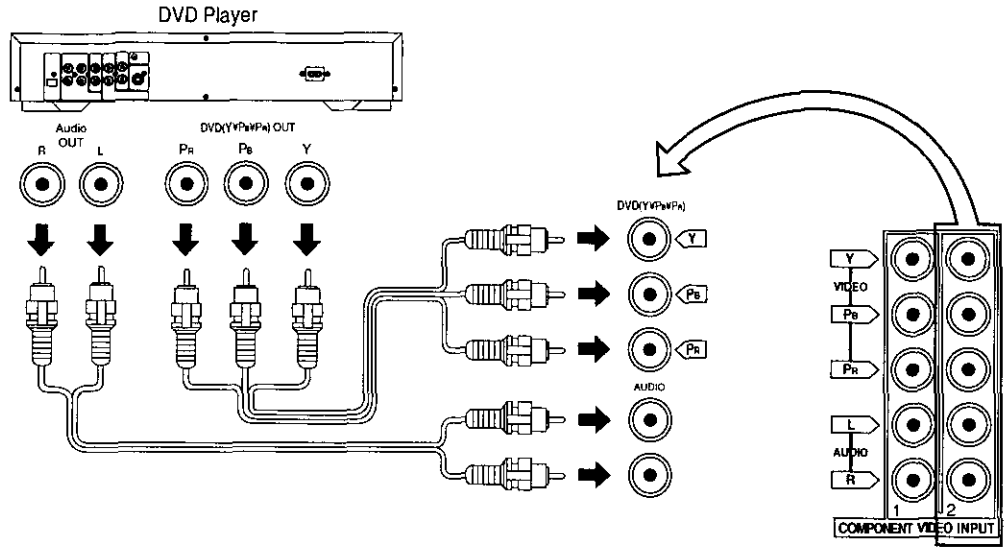
Notes:

(1) When a monaural VCR is used, connect the monaural audio cable to the AUDIO-L (Left) terminal.

(2) Similar connections are available at the INPUT 1, 2, 3, 4 input terminals.
Input 4 is located on the front of the unit.
Select the desired VIDEO input position by pushing the TV/VIDEO button. (See page 27)

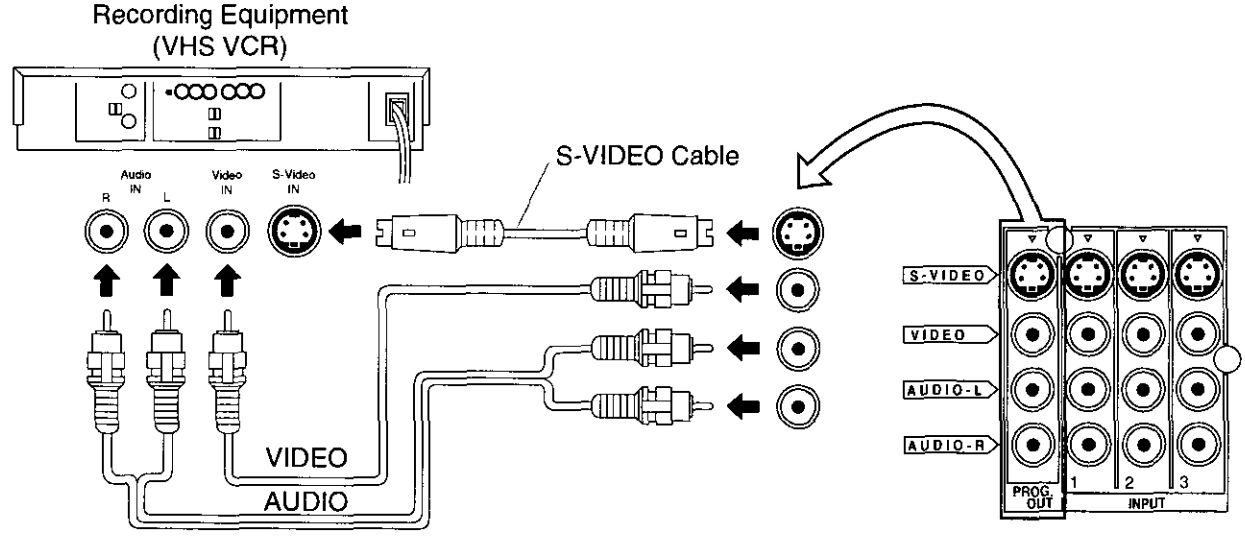
(3) When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

How to connect the COMPONENT VIDEO Input Terminals



How to connect the AV Prog. Out Terminals

The "Prog. Out" Terminals output the same signals as main picture on the TV screen and sound from the speaker at that time, e.g. TV programs or signals from INPUT 1, 2, 3, 4 terminals.



Notes:

(1) Never connect the VIDEO IN and Prog. OUT terminals to the same video recorder, as this could cause incorrect operation.

(2) The monitor output emits the main picture normal video and audio signals.

(3) Even if the television is in picture-out-picture condition, Prog. OUT terminals output the same signals as main picture on the screen and sound from speaker. Sub picture including strobe, still, channel search, etc. will not be output at the PROG. OUT terminals.

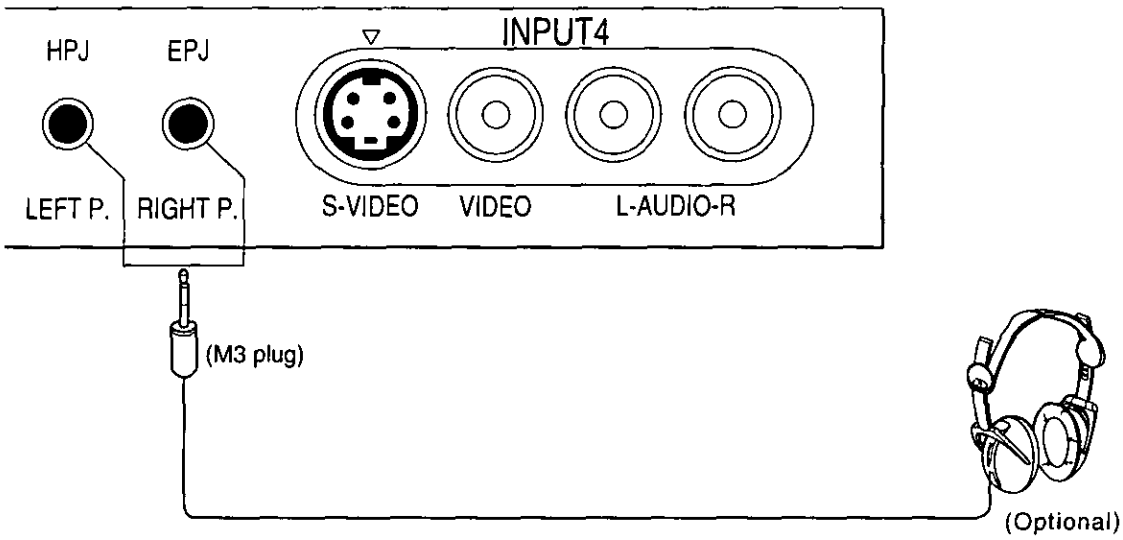
(4) DVD signal (Y, P_B, P_R) is not output at the Prog. OUT terminals.

(5) COMPONENT VIDEO INPUT

In order to prevent colors from interfering, image signals are divided into three signals of brightness, red and blue (green is created automatically from these three signals). Each signal is processed from its own circuit and combined on the screen, creating a natural picture.

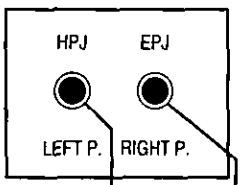
Connecting Headphones / Earphones

Connect headphones / earphones as follows.



You can listen to sound from each of the headphones Jacks as shown below.

Front jack



Sounds from speakers are turned off.

Speakers also function.

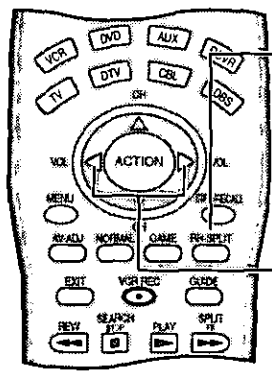
M3 plug jack

Headphones (stereo) or earphones (monaural)

- Volume and sound effects will vary, depending on the connected headphones or earphones.

RIGHT P. (PICTURE)

- During single screen, volume adjustments can be made.
- During split screen, sound from the right screen is played and its volume adjustments can be made.



1. Press the RH-SPLIT button.
2. Immediately make volume adjustments.

LEFT headphones plug:

When a LEFT headphones plug is inserted into the LEFT headphones socket, all speakers will be automatically disconnected; only the headphones will function.

Use Volume Up ▶ or Down ◀ button to control volume level.

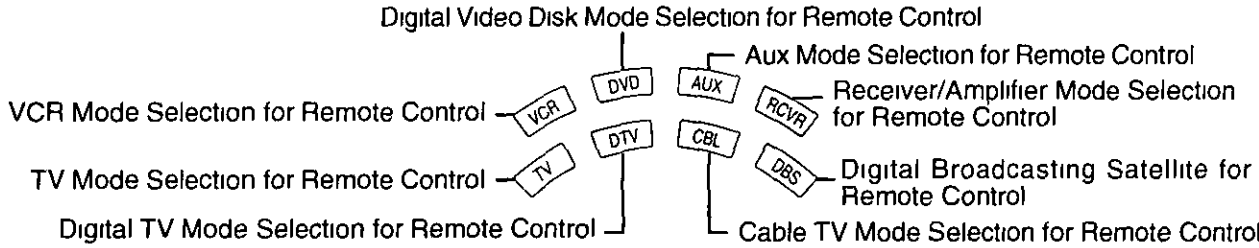
Location of Controls

Illuminated Remote Control

Power button
Press to turn the TV ON or OFF (See page 17)
Note.
The TV's power cord must first be plugged into the wall outlet and then turned on at the POWER switch (standby mode)

MUTE button
Push this button to mute the sound (See page 29)

Mode Selection buttons
Selects the operation mode for the remote control (See page 58)



Operation of other Device

Buttons	◄◄	■	►	►►
TV	—	Split search	—	Split ON/OFF
VCR	REW	STOP	PLAY	FF
CABLE/DBS	—	—	—	—
DVD/LD/CD	Skip Search REW	STOP	PLAY	Skip Search FF
RCVR	Srround –	—	—	Surround +

Buttons	▲	▼	▲	►|
TV	Split Freeze	—	—	Split Swap
VCR	TV/VCR switch	Channel down	Channel down	Pause
CABLE/DBS	—	Channel down	Channel down	—
DVD/LD/CD	Open/Close	Slow-/LD-side B /Random	Slow-/LD-side A /Repeat	Still/Pause
RCVR	—	Center –	Center +	—

R.TUNE **R-TUNE button**
Switches to previously view to channel or video mode

ASPECT button
Change of screen size (See page 22).

Panasonic AUTO → NORMAL → JUST → ZOOM → FULL

Lights the remote control buttons.
The selected button blinks when lit.

Turning ON and OFF the remote control illumination

R-TUNE + INFO/RECALL

Remote control illumination can be turned ON OFF by pressing the INFO/RECALL button while pressing the R-TUNE button.

TV/VIDEO button.
This input mode changes each time this button is pressed. (See page 27)

Changes to the next channel up
Moves cursor upward during menu mode.

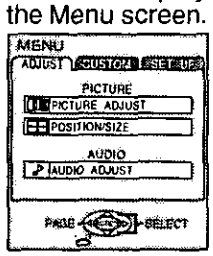
Reduces volume
Moves cursor to the left during menu mode.

Increase volume
Moves cursor to the right during menu mode.

Displays menu
Press the Menu button to display the Menu screen.

Changes to the next channel down
Moves cursor downward during menu mode.

The screen below is displayed for 10 seconds



NORMALIZATION button
Each setting in the MENU screen is reset to its standard values (PICTURE, ADVANCE, AUDIO, POSITION/SIZE)

GAME button
(See page 28)

AV ADJUSTMENT button
AV-adjustments are displayed.
(See page 35, 37)

RH-SPLIT button
Operates the right screen (See page 31).

Returns to normal viewing from the MENU screen. Previous item in MENU.

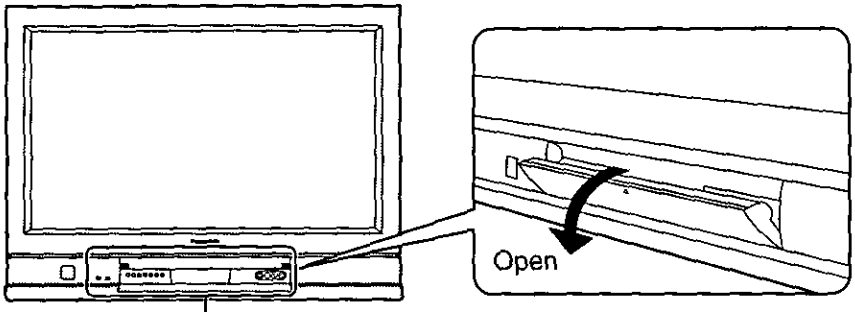
VCR Record button

GUIDE button
for DBS.

PROG **PROG button**

Direct program number selection buttons

Controls and Terminals on the TV



Press the ▲ mark on the center of the front cover to open

Program number selection buttons (see page 19, 24)

Volume up(+) / down(–) buttons (see page 18, 24)

Input mode selection buttons (see page 27)

Action button (see page 19)

Menu button (see page 18)

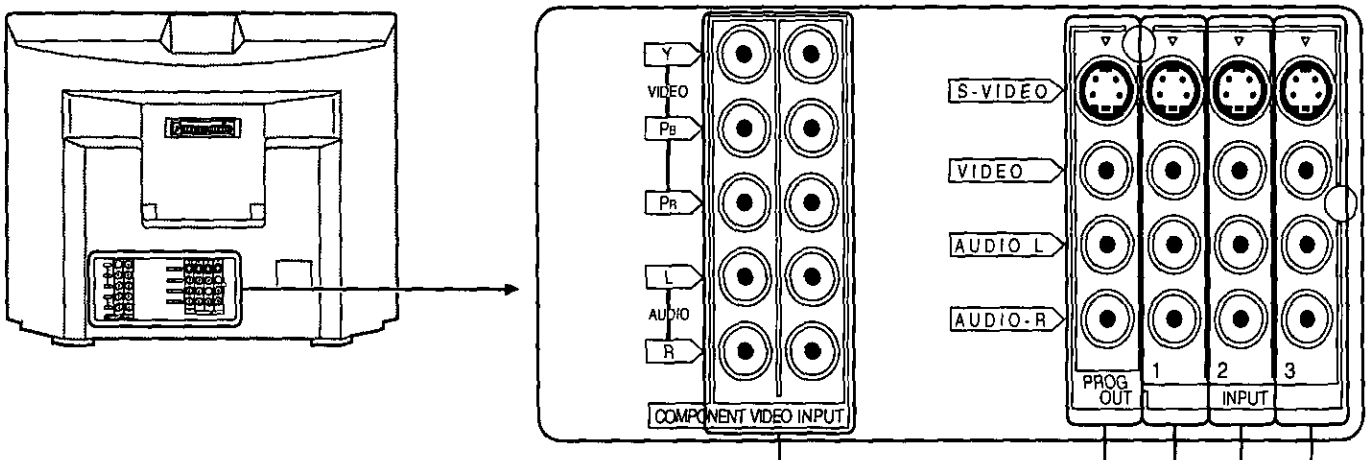
Remote Control Sensor

Input4 terminals
Video camera and TV game cable terminal

Earphone jack

Stereo headphone jack

Power Indicator
The Power Indicator will light
- Power-OFF Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet)
- Stand-by ⏻ Red
- Power-ON Green



Component signal input

Monitor out terminals

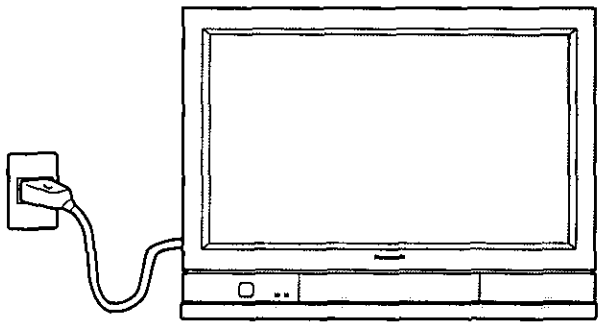
Input1 terminals

Input2 terminals

Input3 terminals

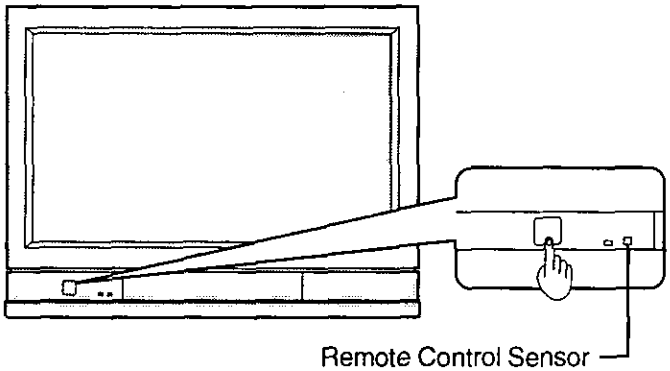
Power ON / OFF

Connecting the Plug to the Wall Outlet



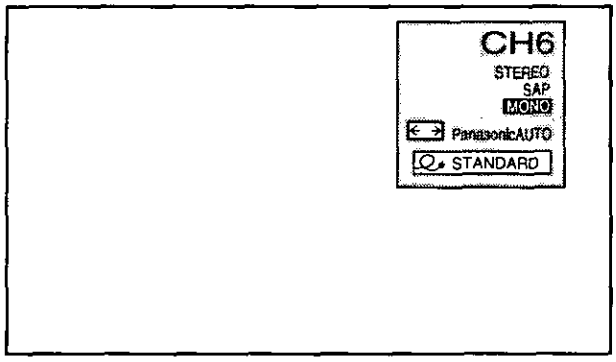
Note:
Main plug types vary between countries. The power plug shown at left may, therefore, not be the type fitted to your set.

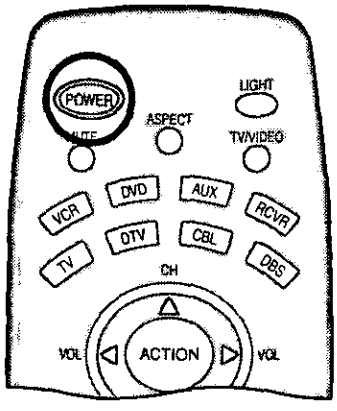
How to Turn the Power On



Push the POWER switch on the TV to turn the set on.
POWER-ON: Green

Example: The screen below is displayed for a while after the TV is turned on. (setting condition is an example.)

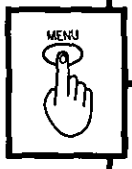




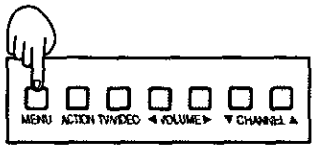
Press the POWER button on the remote control to turn the TV off: Red (standby)
Press the POWER button on the remote control to turn the TV on: Green
Turn the power to the TV set off by pressing the POWER switch on the TV when the TV is on or in standby mode.

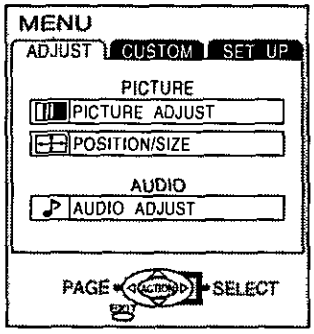
Flow Chart of Main menu

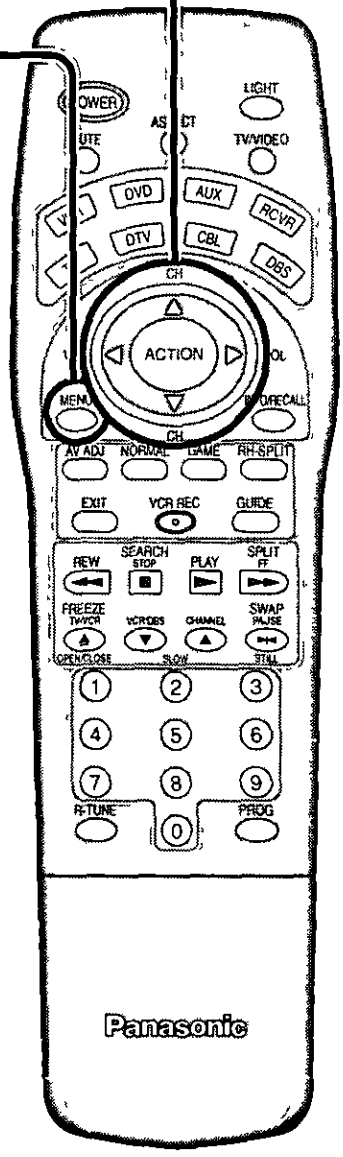
1 If the MENU button is pressed, the MENU screen will be displayed
If the MENU button is pressed once more while the menu screen is displayed, the MENU screen will be cleared



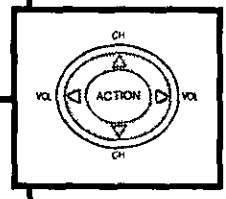
The MENU button on the main body can also be pressed to display the MENU screen



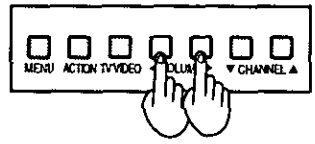


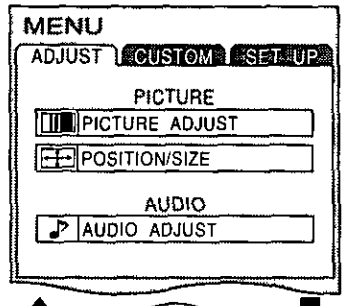


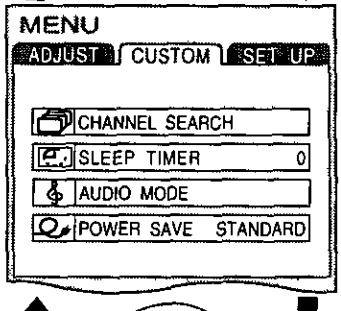
2 Select MENU desired by pushing Right " ▶ " button or Left " ◀ " button

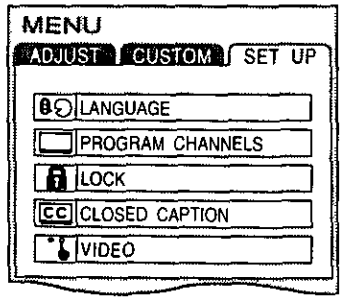


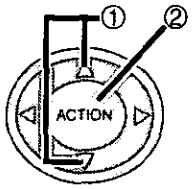
The MENU button on the main body can also be pressed to display the MENU screen

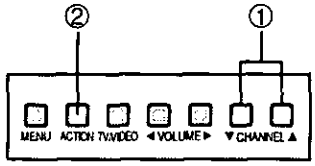






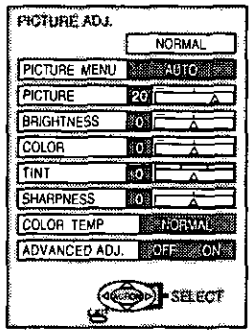


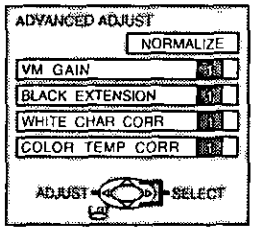




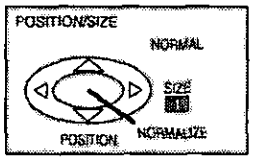
The MENU button on the main body can also be pressed to display the MENU screen.

TO PICTURE ADJUST menu

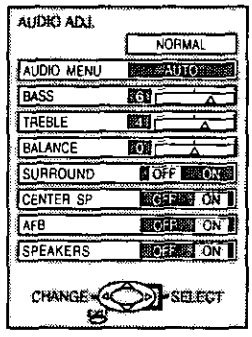




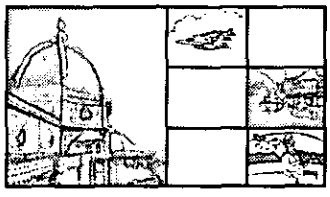
TO POSITION/ SIZE



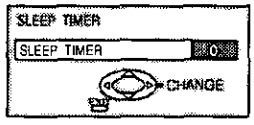
TO AUDIO ADJUST menu



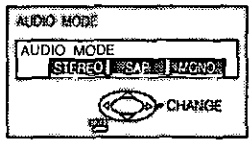
TO CHANNEL SEARCH screen



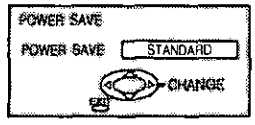
TO SLEEP TIMER adjust screen



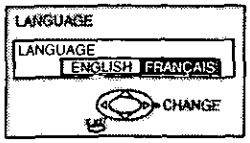
TO AUDIO MODE adjust screen



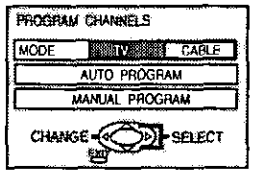
TO POWER SAVE adjust screen



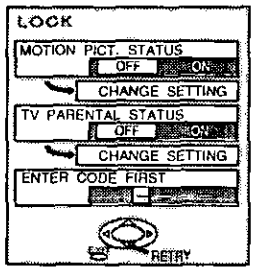
TO LANGUAGE selection screen



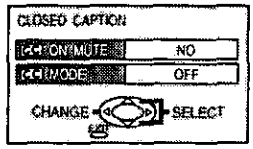
TO PROGRAM CHANNELS adjust screen



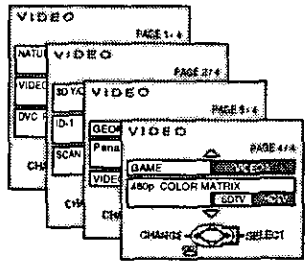
TO LOCK selection screen



TO CLOSED CAPTION selection screen



TO VIDEO adjust screen

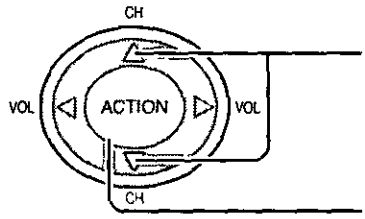


Tuning channels (Automatic channel programming)

Automatically searches and adds receivable channels in the installed area and/or CATV signals to the program.

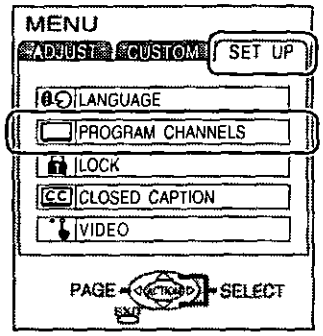
Channel tuning cannot be performed when the MAIN picture is not receiving a TV broadcast (tuning is not possible)

1 Press the MENU button to display the MENU screen and select SETUP

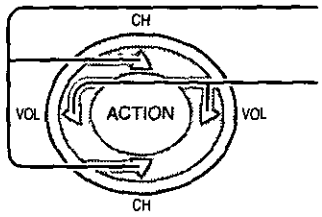


Press to select PROGRAM CHANNEL

Press to display the PROGRAM CHANNEL

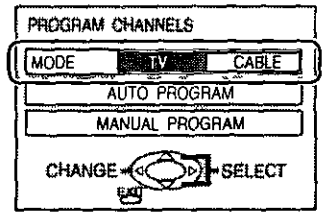


2

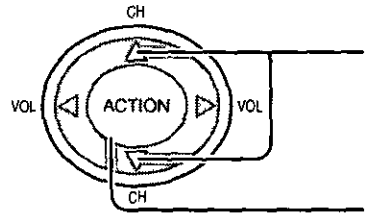


Press to select MODE

Press to select TV or CABLE

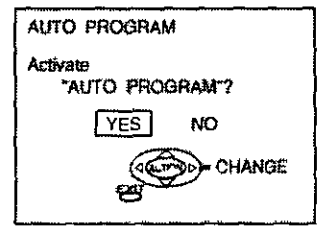


3

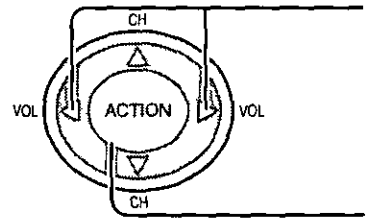


Press to select AUTO PROGRAM

Press to display the confirmation screen

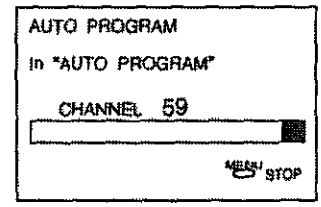


4



Press to select YES

Press to run AUTO PROGRAM



Channels will automatically advance until all channels have been scanned Channel numbers with a video signal present will turn blue Which indicates it has been stored in the Channel Scan Memory

5 Press the MENU button to exit the set up menu

Notes·

- When buttons are pressed with AUTO PROGRAM running, the TV set will return to normal viewing (Channel searched up to this point are added)
- After AUTO PROGRAM is finished, the lowest channel number added will be received
- When there are no receivable channels, channel 69 is displayed (channel 125 for cable TV)

Tuning channels (Manual channel programming)

Use this setting when changing setting of receiving channels or changing the channel display.

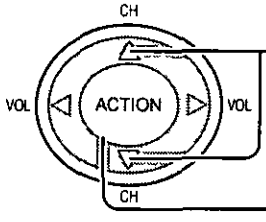
Turn the TV on and select the broadcast channel Follow the steps on the previous page to display the PROGRAM CHANNEL screen

This PROGRAM CHANNEL screen can be displayed when the MAIN picture is a TV broadcast

Selecting the PROGRAM CHANNELS menu.

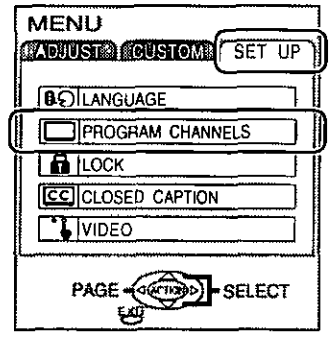
Press the MENU button to display the MENU screen and select SETUP

1

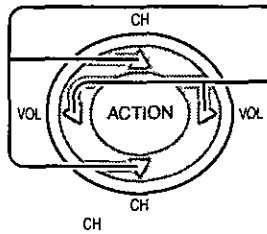


Press to select PROGRAM CHANNELS

Press to display the PROGRAM CHANNEL

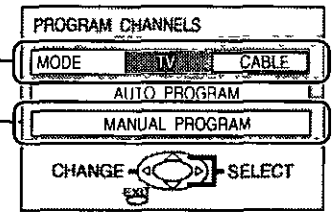


2

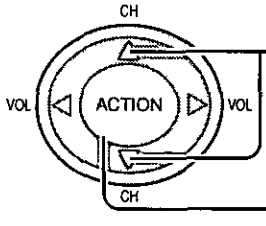


Press to select MODE

Press to select TV or CABLE

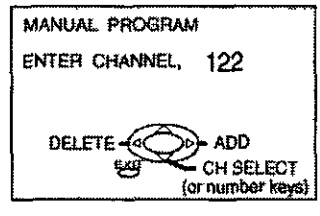


3



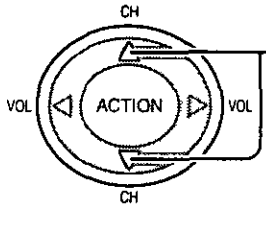
Press to select MANUAL PROGRAM

Press to display the MANUAL PROGRAM screen

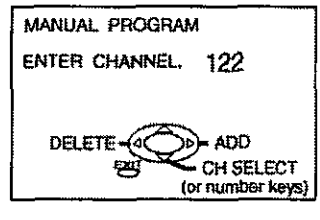


Adding or deleting channels

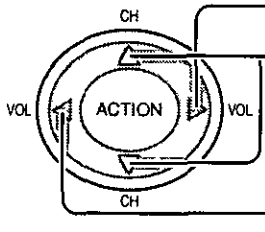
4



Press to select channel (or number keys)



5



Press to add channels to memory (blue)

Press to select channel

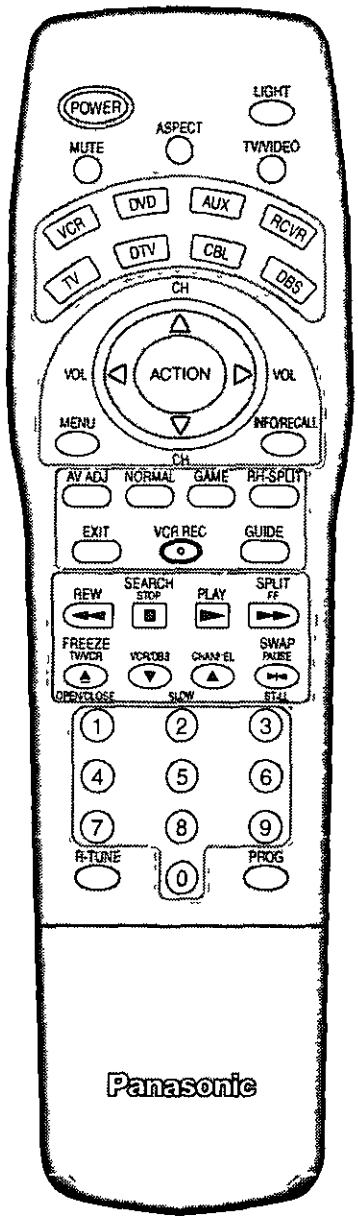
Press to delete channels from memory (yellow)

6 Repeat steps 4 and 5 to continue adding or deleting channels

7 Press the MENU button to exit the set up menu

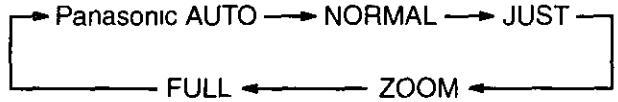
ASPECT Controls

The color monitor will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture



ASPECT button

The aspect mode changes each time the ASPECT button is pressed

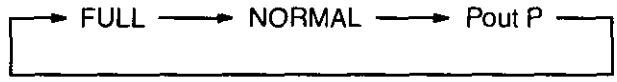


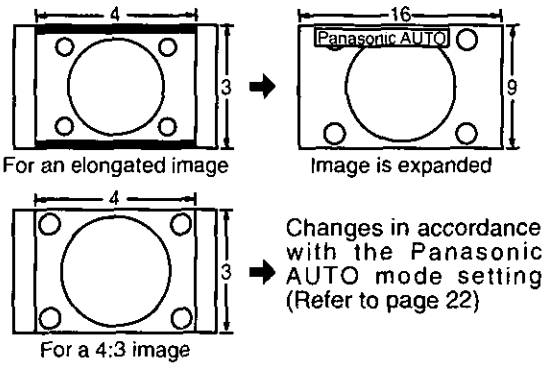
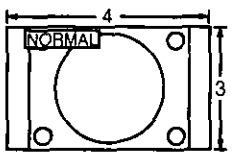
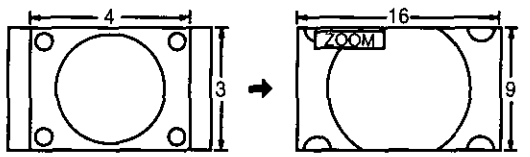
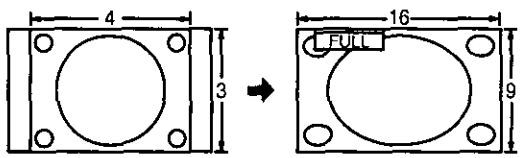
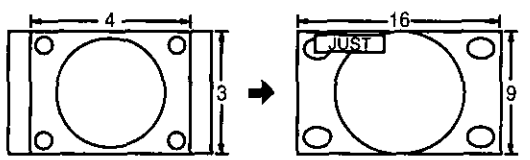
Notes:

(1) For a 480p signal input during component input signal mode, the mode switches between ZOOM and FULL only

(2) When a 1080i signal is being received, the mode is set to FULL, and aspect switching is not possible

(3) During split screen, modes will change as follows



Mode	Picture	Explanation
Panasonic AUTO	 Changes in accordance with the Panasonic AUTO mode setting (Refer to page 22)	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. **Note:** (1) If Panasonic Auto mode is selected, the image may change size suddenly, according to program material. (2) There may be a slight delay for the screen size to adjust. If a 480p or 1080i signal is input during component input signal mode, the controls will not operate.
NORMAL		NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with sight elongation.
JUST		JUST mode will display a 4:3 picture at maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.

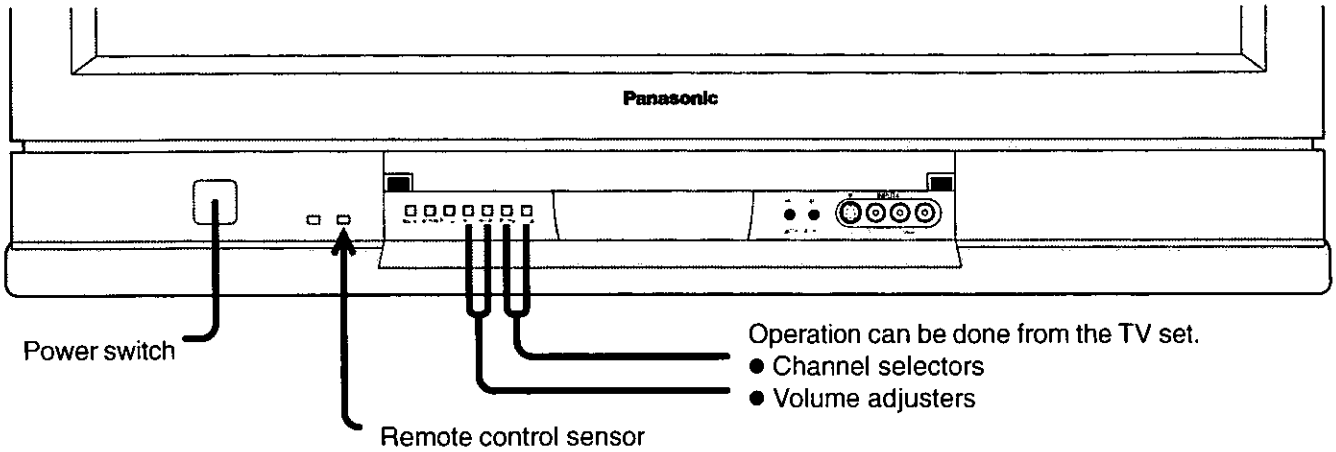
Notes:

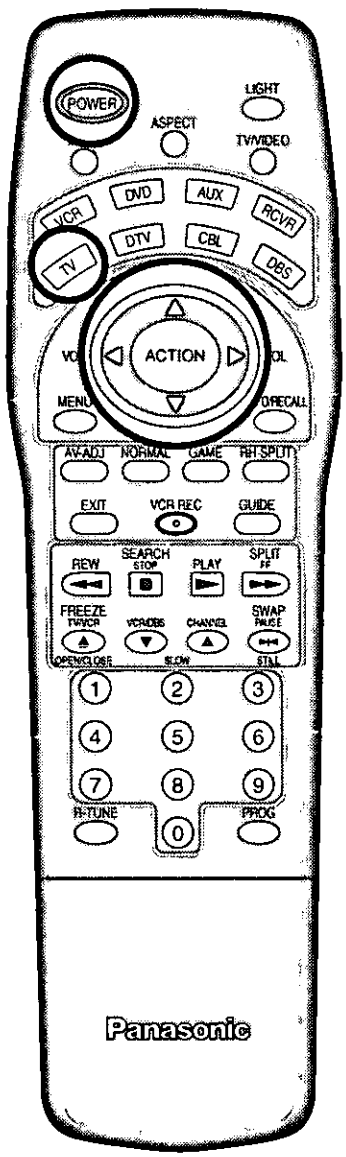
(1) The S-VIDEO terminal on this set can detect specially encoded signals that are compatible with a wide screen monitor. When a full image from the S-VIDEO terminal of specially encoded video is detected by the set, the screen size is automatically set to FULL mode.

(2) The screen size also changes if ID-1 is detected.

(3) The screen size will also change if S1 detection has been set.

VHF, UHF and CATV



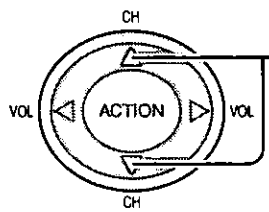


1

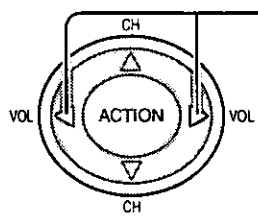
Press to turn the TV on (See page 17).

2

Press to operate the TV set with the remote control.

3 

Press to select the desired channel.

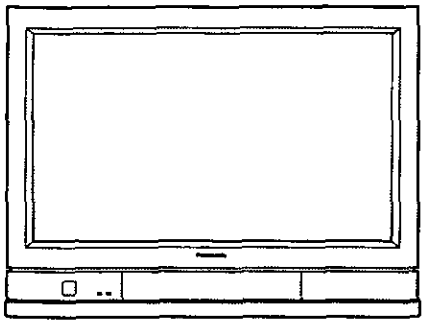
4 

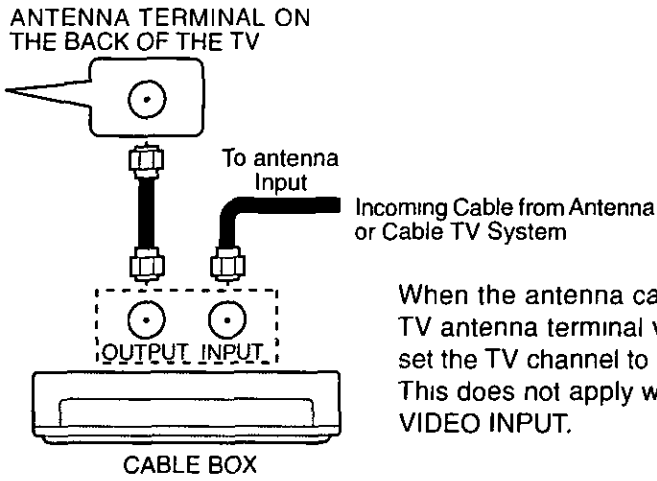
Select the desired volume level.

Notes:

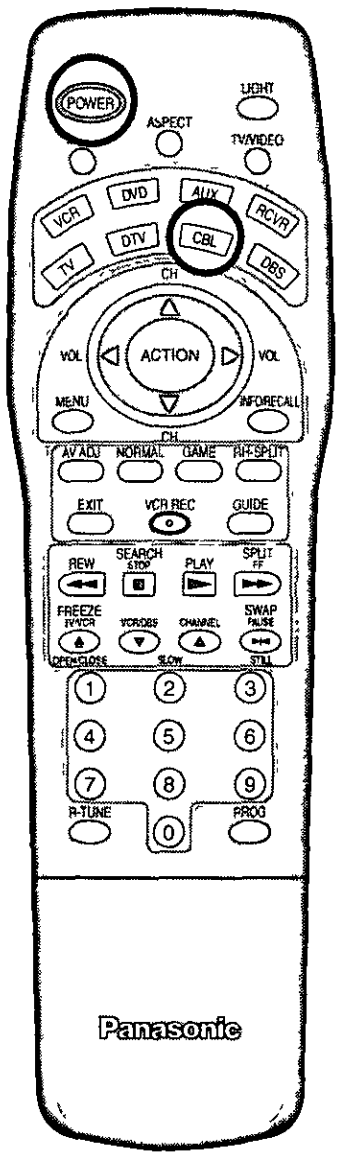
- The channel number and volume level are set even after the TV is turned off.
- Power consumption and howling of sound can be reduced if the volume level is lowered.

Cable TV





When the antenna cable is connected to the TV antenna terminal via a cable box or VCR, set the TV channel to CH3 or CH4
This does not apply when signal is input from VIDEO INPUT.



Confirming

Confirm that registration with cable TV and connection of equipment are completed Turn the cable TV tuner and select the desired volume level

1

2

Press while pointing the remote control towards the cable TV tuner

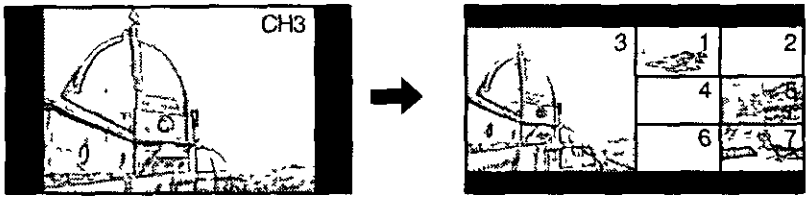
Note
The remote control code number is set for Panasonic products
When peripheral equipment does not operate, reset code (See page 59 and 60)

---

3 Operate the cable TV tuner and select the desired volume level

Searching for the desired channel (channel search)

When a SEARCH / STOP button is pressed during single screen

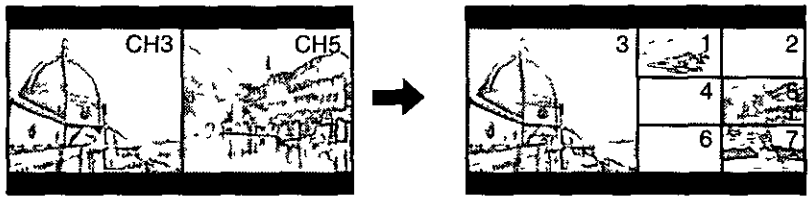


The sound from the left screen will be heard from both [LEFT P] and [RIGHT P] screen jacks (both earphones and headphones)

When a channel button is pressed during channel search

- Number keys
  Example When 8 is pressed, channel 8 is displayed in single screen
- Channel up and down keys
  When ▲ or ▼ button is pressed, the next channel up or down is displayed in single screen

When a SEARCH / STOP button is pressed during single screen



The sound from the left screen will be heard from both [LEFT P] and [RIGHT P] screen jacks (both earphones and headphones)

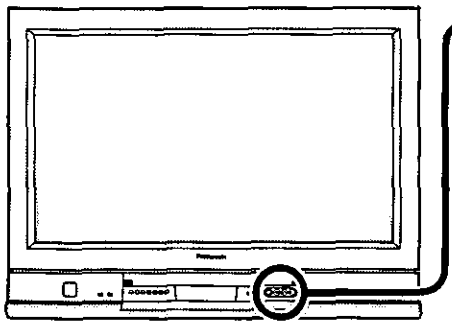
When a channel button is pressed during channel search.
The selected channel will be displayed on the right screen (pause is deactivated)

Channel search:
Channel search displays each channel, in order, as a paused image Channels are displayed from the left top to the right bottom in order When it reaches the right bottom, the next channel is displayed at the left, overwriting the previously displayed channel

Notes

- To end channel search, press → SEARCH STOP
- Channel search can be activated from the MENU screen

Playing a VCR or other peripheral equipment

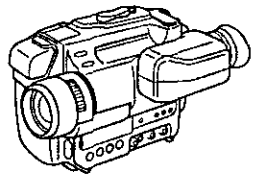


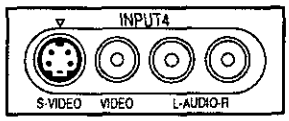
Confirm that the TV is in standby mode.

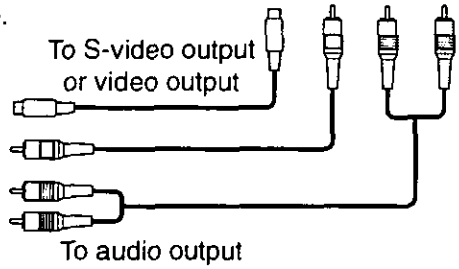
Confirming connections

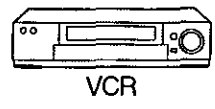
A video camera uses the Video Input 4 terminal on the front of the TV.

Video camera

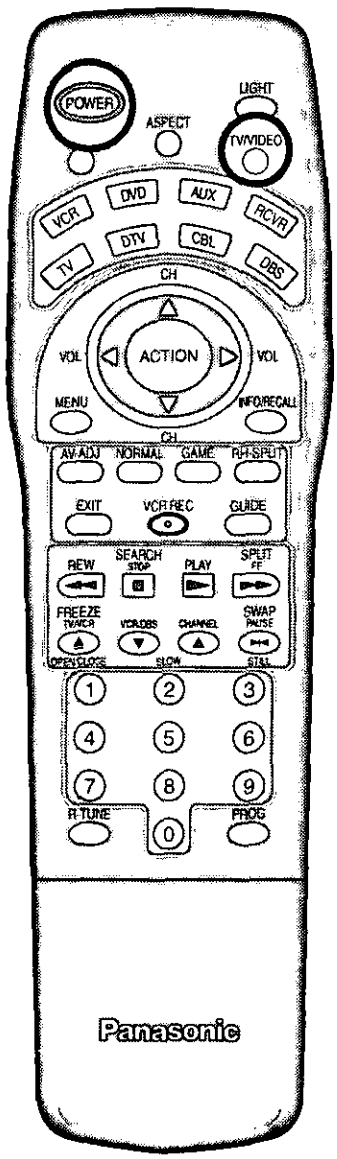








This equipment can also be connected to the rear terminals. See Connections for details.



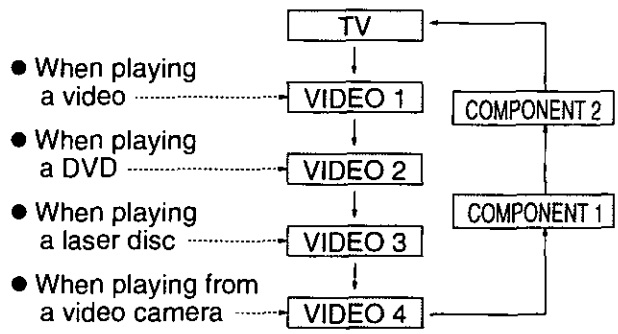
Turning the power on and switching input modes

1

Turn the TV on.

2

The input mode changes each time this button is pressed. (See page 46 and 47)

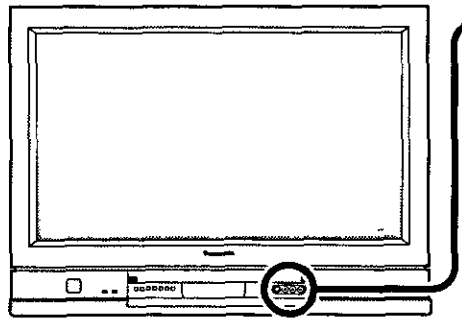


(No input mode is displayed for terminals with no equipment connected.)

Note:
When the remote control is unavailable, input modes can also be switched on the TV set using the TV/VIDEO button.

3 Operate the connected equipment.

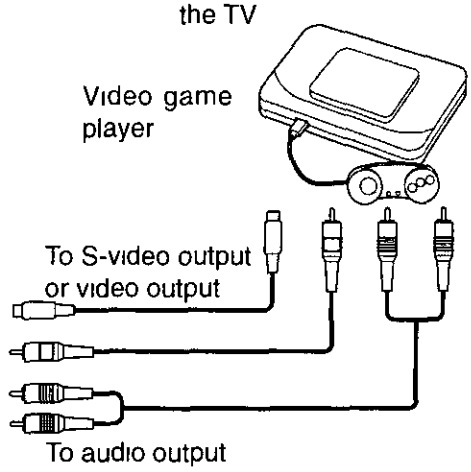
Playing games in game mode

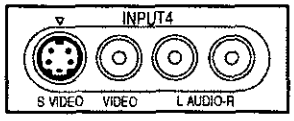


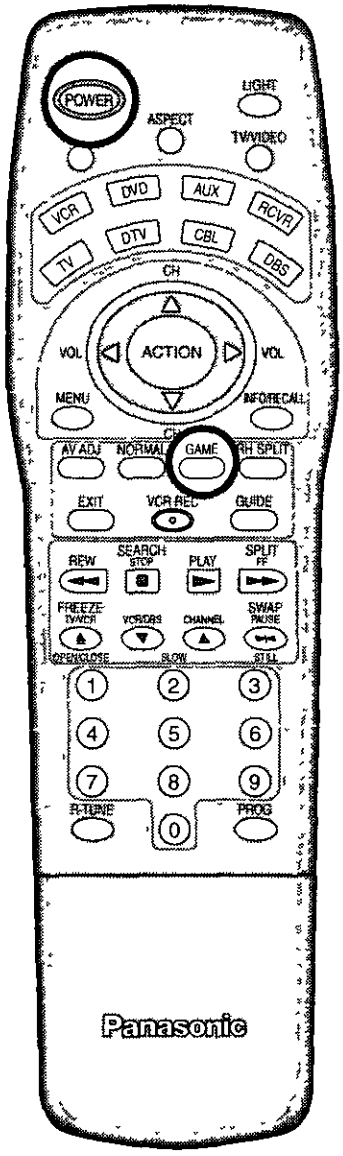
Confirm that the TV is in standby mode

Confirming connections

Example When using the Video Input 4 terminal on the front of the TV







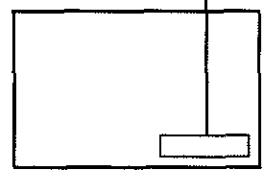
Turning on the TV and switching to game modes

1

Turn on the TV

2

Press the GAME button to switch to game mode



TV screen

- Displays the lapsed time
  Lapsed time is displayed for 5 seconds every 30 minutes
  Be sure to rest your eyes every 30 minutes

GAME 30 → GAME 60 → GAME 90

The lapsed time display stops after 90 minutes

3 When finished, press the GAME button again (Turn off the game mode by switching input modes or changing the channel)

Notes.

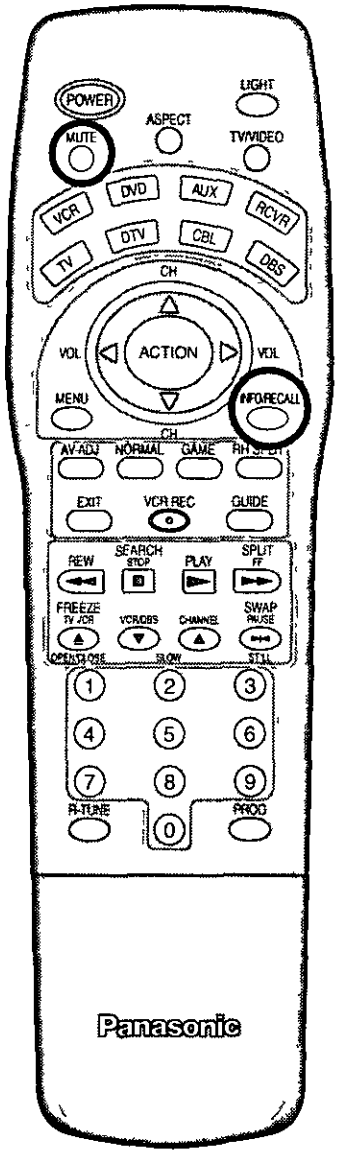
- Video input mode can be changed when the GAME button is pressed
- Game mode is maintained when power to the TV is turned off
- When game mode is selected Picture will be set to PICTURE MENU (GAME), and sound will be set to SOUND MENU (GAME)

factory default setting

Item	Setting
Picture menu	Game
Audio menu	Game
Surround	ON
Screen mode	FULL

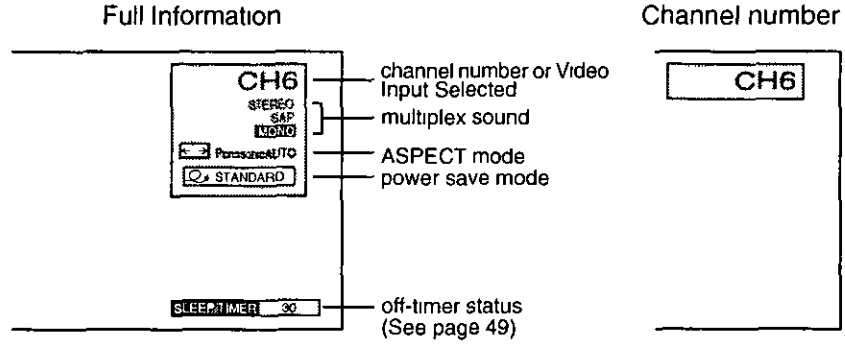
- Picture and sound can be set as desired (See page 34 and 36)

Recall / Mute

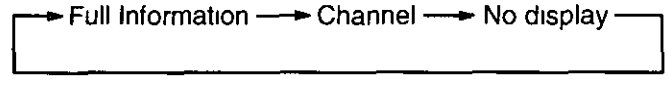


Recall (On-screen display)

Press this button to display channel number, off-timer remaining time, screen modes, and other settings For approximately 10 seconds, only the channel number remains,
The channel number remains, but other information disappears after a specified period Press this button again to delete channel number display



The INFO/RECALL button switches the display in the following order



Mute

Useful when answering the phone or receiving unexpected visitors

Press this button to mute the sound Press again to reactivate sound Sound is also reactivated when power is turned off or volume level is changed

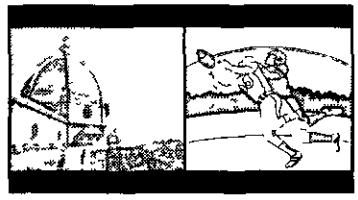
Split screen

Split screen enables you to search other channels on the right screen or check video recording status

Splitting the screen

Press to split

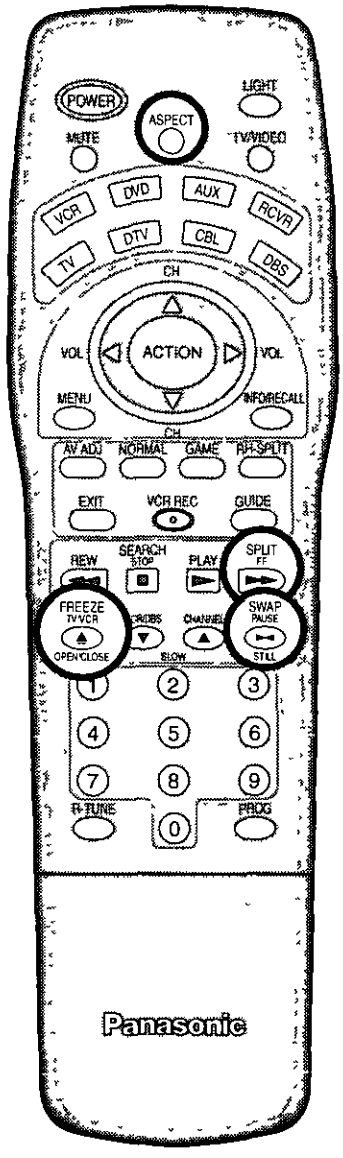
(The previously selected screen appears)



Example Two screen mode set to NORMAL aspect

- Returning to one screen

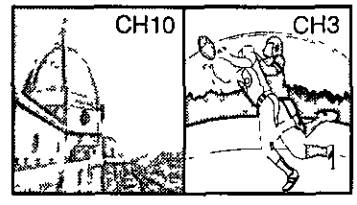
Press to return



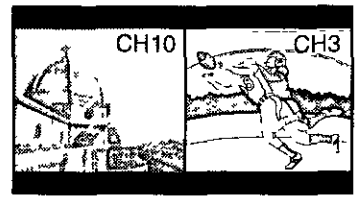
Selecting the screen mode for split screen.

Press to select modes

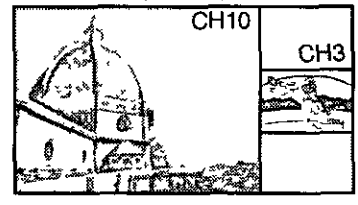
(FULL)



(NORMAL)



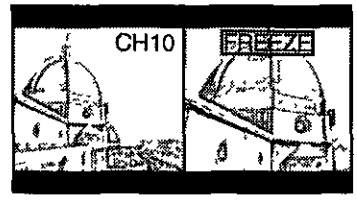
(PoutP)



Freezing pictures

Press during single screen to freeze

The screen is split and the freeze image is displayed on the right and the broadcast channel continues on the left



Press to recover

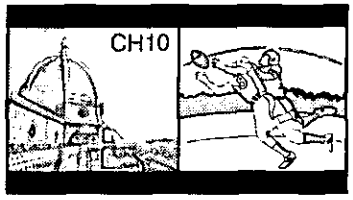
Notes.

- Sound from the left screen is output from the speakers on the TV set (EPJ) Sound from the right screen is output from the right earphone jack output on the front of the TV set (see page 13)
- When the screen is split, signals of the left screen are output from the rear monitor output terminal
- The left and right screen are processed by individual circuits and, therefore, may have slight variation in sound and image quality
- Split screen returns to single screen when the TV is turned off

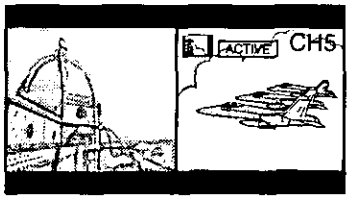
Changing the channel of the right screen

during SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, and PoutP.

1 RH-SPLIT Press to operate right screen.



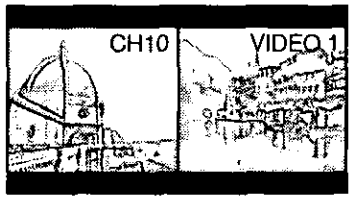
2 5 While is displayed on the screen, press to switch modes.



Example:
Change to channel 5.

Viewing videos

TV/VIDEO While is displayed on the screen, press to switch modes.

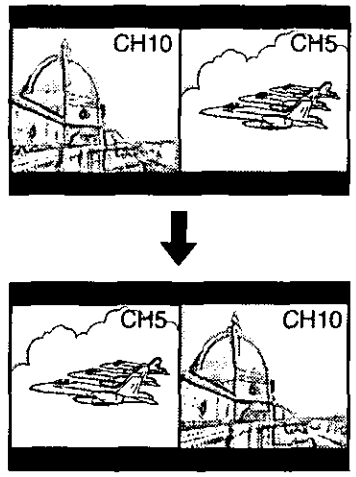


- The channels for the left screen can be changed in the same way as when the screen is single.

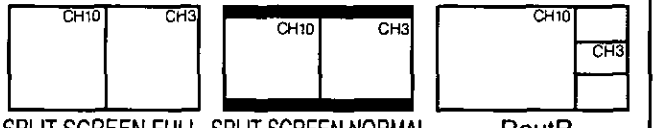
Swapping left and right screens

SWAP PAUSE During SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, PoutP: Press to swap.

Example: During SPLIT SCREEN NORMAL.



Screen mode names:



Notes:

- Use earphones to listen to sound of the right screen during SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, and PoutP.
- The right and left screens cannot display the same picture at the same time.
- Use the right screen when playing video games on a split screen (to avoid distortion of images).

Adjusting screen position and size

Adjusting screen

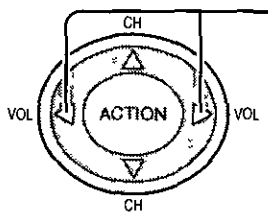
1

Press to select the screen mode to adjust

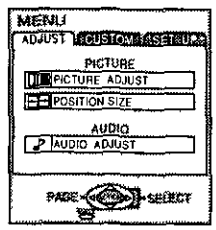
2

Press to display the MENU screen

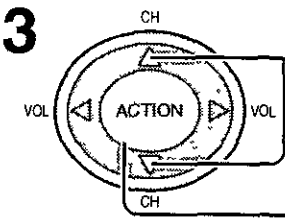
▼



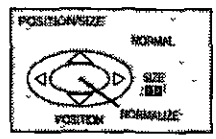
Press to select ADJUST menu



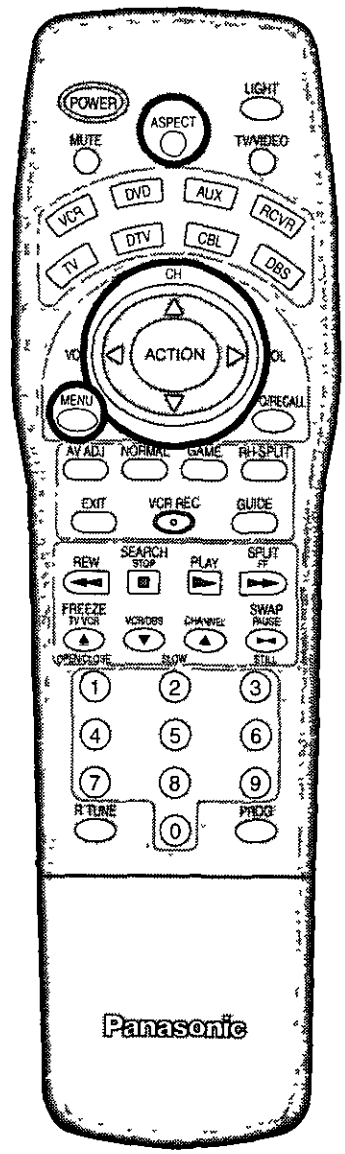
3



Press to select POSITION/SIZE and



press ACTION

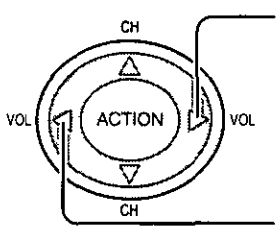


Notes:

- This TV is equipped with various screen modes If a screen mode with a different aspect from the broadcast program is selected, image will appear differently Select the proper screen mode with this in mind
- Be careful when using this TV for commercial purposes or for public use, such as in cafes and hotels Shrinking and enlarging images by using screen mode switching function (zoom, etc) may violate copyright laws
- Images displayed on a wide screen TV will be cut off or distorted at the edges, when viewing normal aspect images of 4 3 in ZOOM, JUST or FULL mode Display in NORMAL mode to view the original image intended by the producer
- For 1080i and 480p input images, screen position and size cannot be adjusted
- The adjusted setting will be kept even when the TV is turned off
- The signals output from the monitor output terminal on the back of the TV are not affected when the screen size and position are adjusted

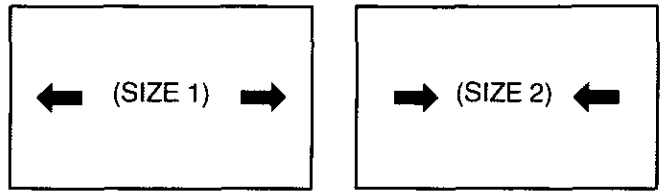
Switching screen width

During NORMAL mode, if noise appears on the ends of the image in SIZE 1, switch to SIZE 2

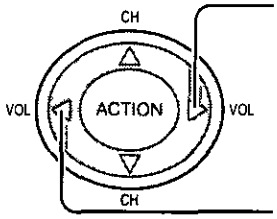


Press to narrow (SIZE 2)

Press to widen (SIZE 1)

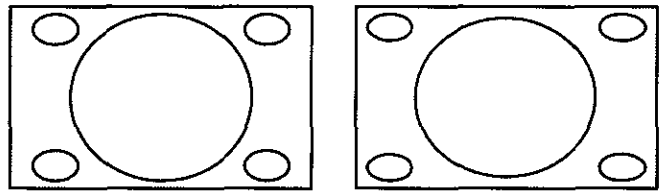


During JUST mode, if noise appears on the ends of the image in SIZE 1, switch to SIZE 2



Press to enlarge image horizontally (SIZE 2)

Press to shrink image horizontally (SIZE 1)

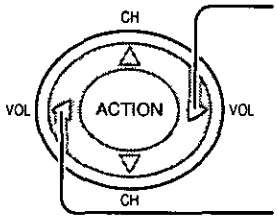


(SIZE 1) (SIZE 2)

- To return to standard → ACTION
- To end adjustments → MENU (EXIT)

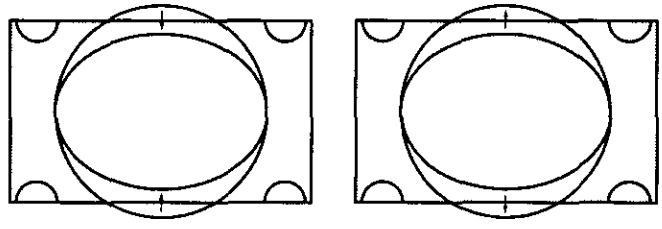
Changing vertical size

During ZOOM modes



Press to enlarge image vertically (max 15)

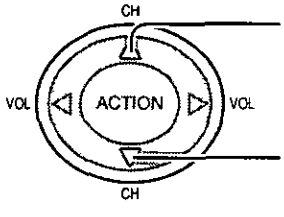
Press to shrink image vertically (min 1)



- To return to standard → ACTION
- To end adjustments → MENU (EXIT)

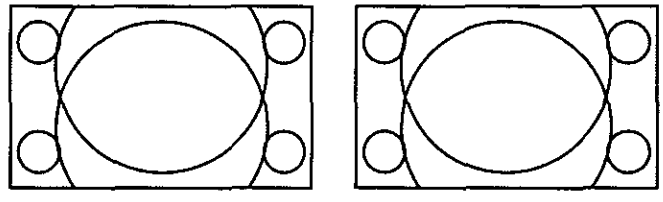
Displaying images cut off from the screen

For ZOOM and JUST modes



Press to move image upwards

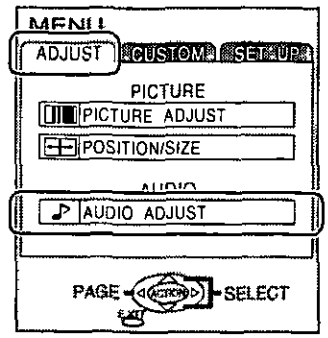
Press to move image downwards



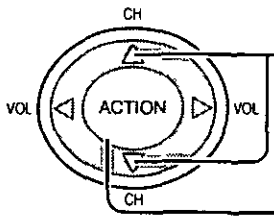
- To return to standard → ACTION
- To end adjustments → MENU (EXIT)

Audio Adjustments

1 Press the MENU button to display the MENU screen and select ADJUST



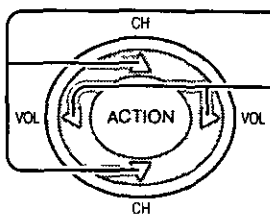
2 Select AUDIO ADJUST of ADJUST from the MENU screen



Press to select AUDIO ADJUST

Press to display AUDIO ADJUST screen

3



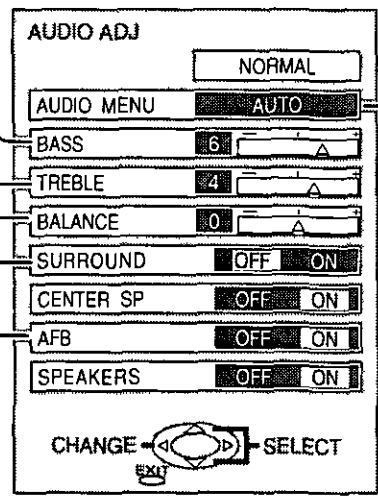
Press to select the menu to adjust each item

Select the desired level by listening to the sound

BASS
Adjusts low sounds

TREBLE
Adjusts high sounds

BALANCE
Adjust left and right volumes



SURROUND
To enjoy a concert hall effect, turn SURROUND to ON
During stereo sound or soft playing

SURROUND OFF [ON]

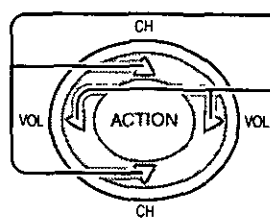
During monaural sound

SURROUND [OFF] ON

AFB (**A**coustic **F**eed **B**ack)
Enables speakers to produce the best quality sound (Normally turned on)

- AUTO — Automatically adjusts quiet sound and loud sound for ease of listening
- STANDARD — Emits the original sound
- DYNAMIC — Gives contrast to sound
- MUSIC 1 — For programs consisting mainly of music Enhances high sounds (around 4 kHz)
- MUSIC 2 — Enhances high sounds even more (Recommended for those who have slight hearing deficiencies)

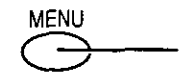
When GAME is selected for the picture, sound setting also changes to GAME
During GAME mode, sound mode cannot be changed in this menu



To reset to standard setting, select NORMALIZE with the up ▲ and down ▼ buttons and press ACTION

To adjust settings individually , press the AV ADJUST button to select the desired menu and adjust using the left ◀ and ▶ right buttons

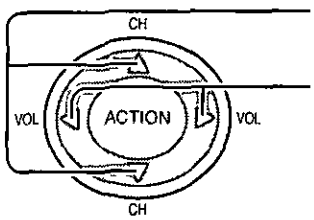
● To end adjustments →



Press MENU button

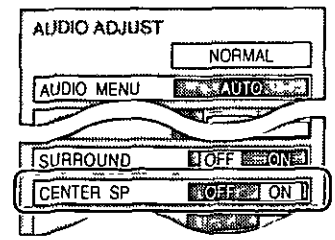
Turning the center speaker ON and OFF to enhance the mood

During AUDIO ADJUST menu



Press to select CENTER SP

Press to select switch

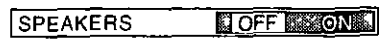


ON ● Sound given off from the center is enhanced and stability is increased
OFF ● Use when certain scenes are hard to hear or to enhance and increase stability

Turning the speaker sound ON and OFF

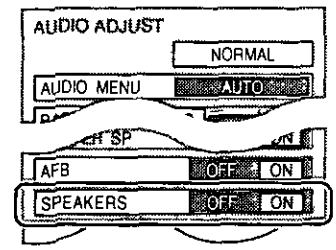
SPEAKERS OFF

Turns off the speaker sound



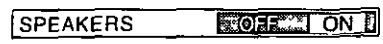
Notes

- Sound signals are output from the rear AUDIO OUT terminal
- When volume is adjusted or the mute button is pressed from the remote control, a message will be displayed
- Sound signals from the headphone and earphone jacks are as follows
  HPJ OFF
  EPJ ON



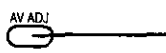
SPEAKERS ON

Speaker sound is normal



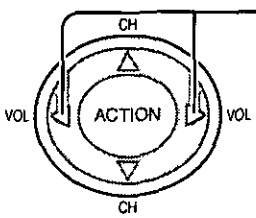
● To end adjustments → MENU

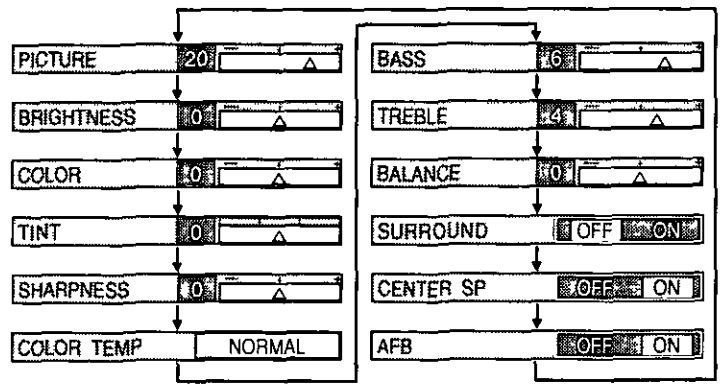
By pressing the AV-ADJ button on the remote control, PICTURE ADJUST and AUDIO ADJUST can be directly adjusted instead of starting from the MAIN menu



The selected menu will change each time the AV-ADJ button is pressed (press until the desired menu is displayed)

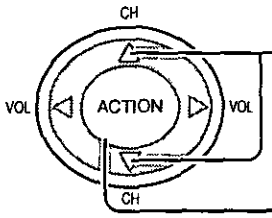
Adjust using the left ◀ or right ▶ button





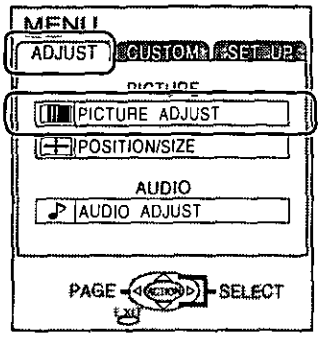
Picture Adjustments

1 Press the MENU button to display the MENU screen and select ADJUST

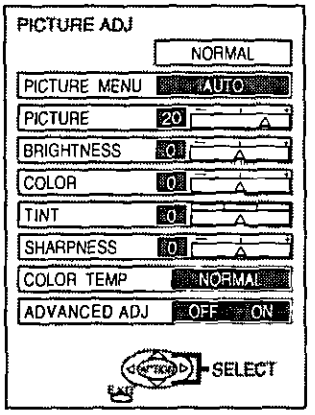


Press to select to PICTURE ADJUST

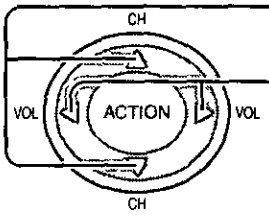
Press to display the PICTURE ADJUST screen



NORMAL is displayed at default

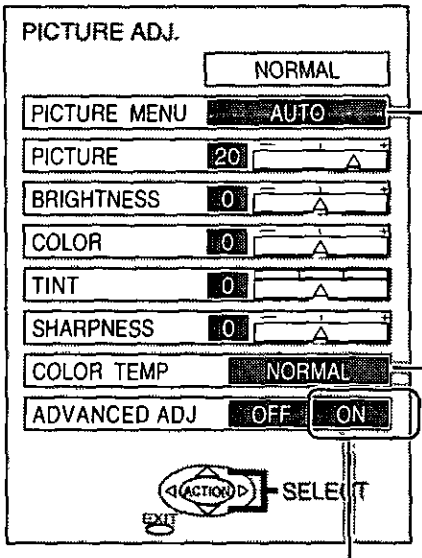


2



Press to select the menu to adjust

Select the desired level by looking at the picture behind the menu



Adjusts picture in more detail (see page 38)

Press the left ◀ or right ▶ button to switch between modes

AUTO — STANDARD — CINEMA — DYNAMIC

AUTO — **Auto**
Adjusts brightness, depending on surrounding light, for easier viewing

STANDARD — **STANDARD**
Displays unaltered image

CINEMA — **CINEMA**
Ideal for movies

DYNAMIC — **DYNAMIC**
Displays a clear screen with contrast of light and dark

During GAME mode, picture mode cannot be changed in this menu

Press the left ◀ or right ▶ button to switch between modes

NORMAL ⟷ COOL ⟷ WARM

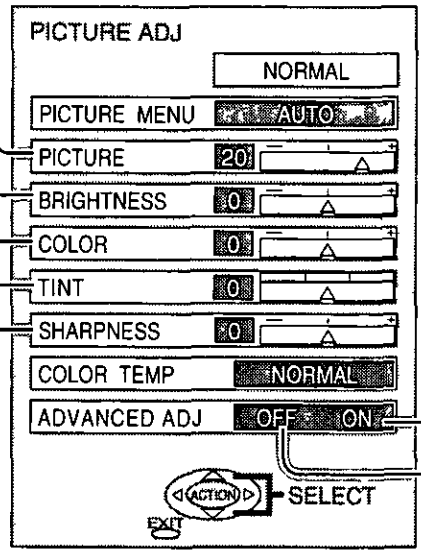
PICTURE
Selects proper brightness and density for the room

BRIGHTNESS
Adjusts for easier viewing of dark pictures such as night scenes and hair

COLOR
Adjusts slightly to a lighter color

TINT
Adjust for nice skin color

SHARPNESS
Displays a sharp image

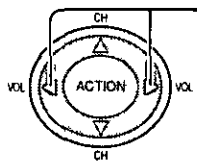


ADVANCED ADJ
This function is available when STANDARD or CINEMA mode is selected for the PICTURE MENU

ADVANCED ADJ ON
Enables fine picture adjustment at a professional level (see next page)

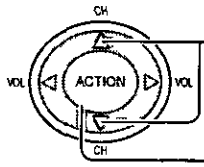
ADVANCED ADJ OFF
Displays images with the selected setting of the PICTURE MENU

● To adjust each item, →



Press the up ▲ and down ▼ button and make adjustments using the left ◀ and ▶ right buttons

● To reset to standard setting, →



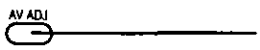
Select NORMALIZE with the up ▲ and down ▼ buttons

Press ACTION

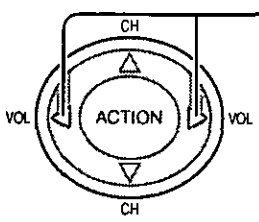
● To return to normal viewing →

Press MENU button

By pressing the AV-ADJ button on the remote control, PICTURE ADJUST and AUDIO ADJUST can be directly adjusted instead of starting from the MAIN menu (See page 35)



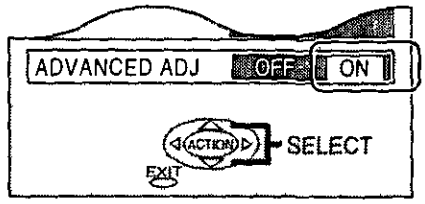
The selected menu will change each time the AV-ADJ button is pressed (press until the desired menu is displayed)



Adjust using the left ◀ or right ▶ button

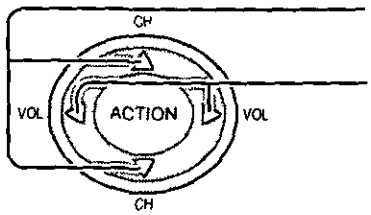
Note:
There is little change when PICTURE is increased with a bright picture or reduced with a dark picture

Press left ◀ or right ▶ to turn ON, and a ▶ mark is displayed
Press down ▼ to display the ADVANCED ADJUST screen



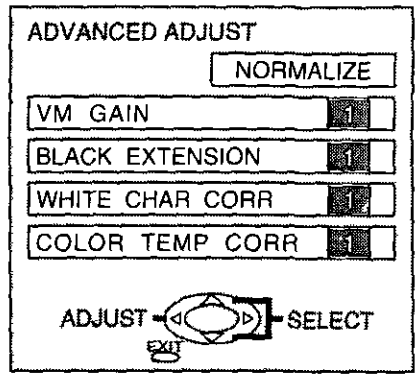
ADVANCED PICTURE ADJUST

During STANDARD or CINEMA mode, ADVANCED ADJUST setting is possible

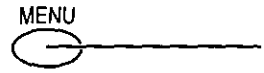


Press to select menu

Press to adjust

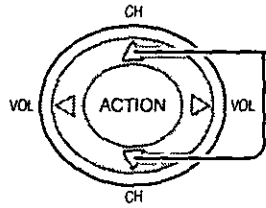


- To return to normal viewing →



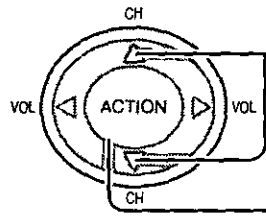
Press MENU button

- To return to PICTURE ADJUST menu →



Press up from VM GAIN, or press down from COLOR TEMP CORR

- To return to standard →



Select NORMALIZE with the up ▲ and down ▼ buttons

Press ACTION

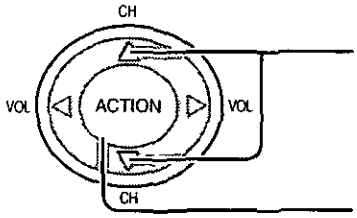
Item	Content	Adjustable range
VM GAIN	Adjusts the emphasis for the Vertical contours	0 (no adjustments) - 15 (max adjustment)
BLACK EXTENSION	Adjusts the dark shades of the image in gradation	
WHITE CHAR CORR	Emphasizes the whiteness of parts such as white characters	
COLOR TEMP CORR	Fine adjustments of color temperature selected for each PICTURE MENU mode	-7 (low color temperature) - 7 (high color temperature) <reddish color> <bluish color>

Playing special video software

When playing special images such as three dimensional video disks on video disk players or game software on video game players, use GAME mode. Use TV mode for normal viewing.

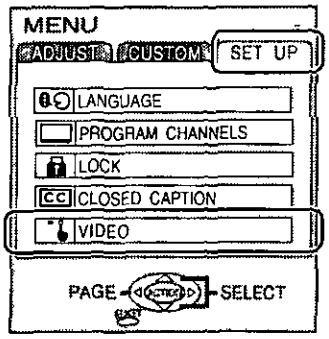
Selecting VIDEO menu

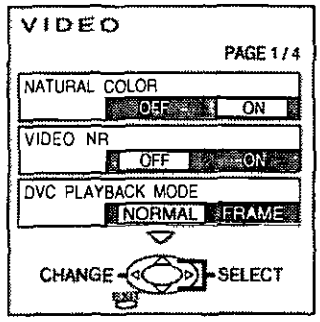
Press the MENU button to display the MENU screen and select SETUP



Press to select VIDEO

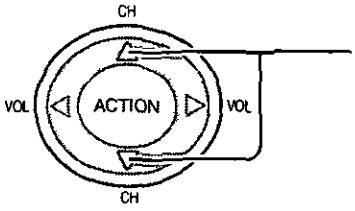
Press to display the VIDEO screen





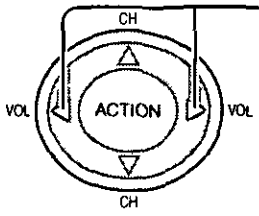
Switching to SCAN MODE.

1

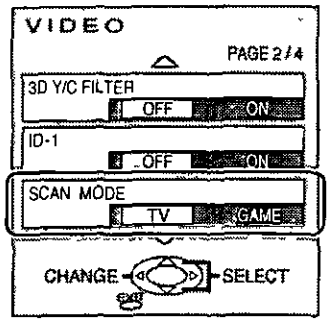


Press to select SCAN MODE

2



Press to select TV or GAME



MENU

Press to exit menu

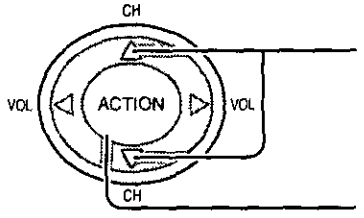
Notes.

- The VIDEO set up screen is made up of 4 pages
  Use the up ▲ and down ▼ buttons to change pages

Closed Captions

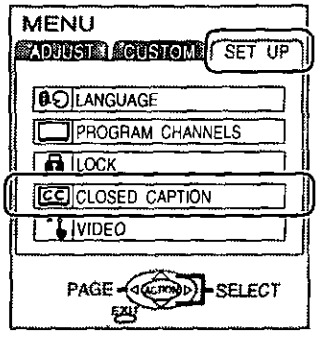
This receiver has a built in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (white or colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

1 Press the MENU button to display the MENU screen and select SETUP



Press to select CLOSED CAPTION

Press to display the CLOSED CAPTION screen

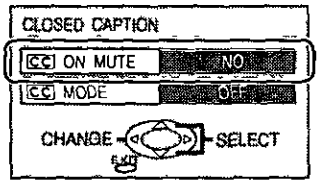


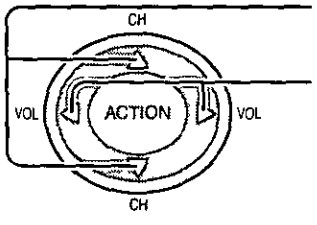
2 **CC On Mute**

Activates the On-Screen Closed Caption feature, when the MUTE button on the Remote Control is pressed To deactivate, press the MUTE button again

Note:

This feature functions when the Closed Caption Mode is in the "OFF" position
The program being viewed must be broadcast with Closed Caption





Press to select ON MUTE

Press to select from the following

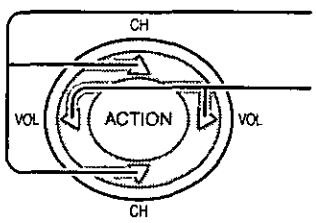
NO(OFF) ↔ C1 ↔ C2 ↔ C3 ↔ C4

Notes

- Recommended menu Set Up for Closed Caption when using Mute Button
  CC ON MUTE C1
  CC MODE OFF
- The setting for CC ON MUTE is valid only when the CC MODE is OFF, CC MODE set to ON will override CC ON MUTE
  This menu cannot be selected when the MAIN picture is displaying a COMPONENT VIDEO INPUT of 480i or more
- When aspect is ZOOM, Closed Caption cannot be used

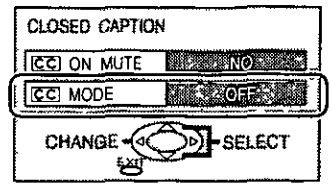
3 CC Mode

Activates the On-Screen Closed Caption feature When activated this feature will remain on until OFF is selected in this menu



Press to select CC MODE

Press to select from the following



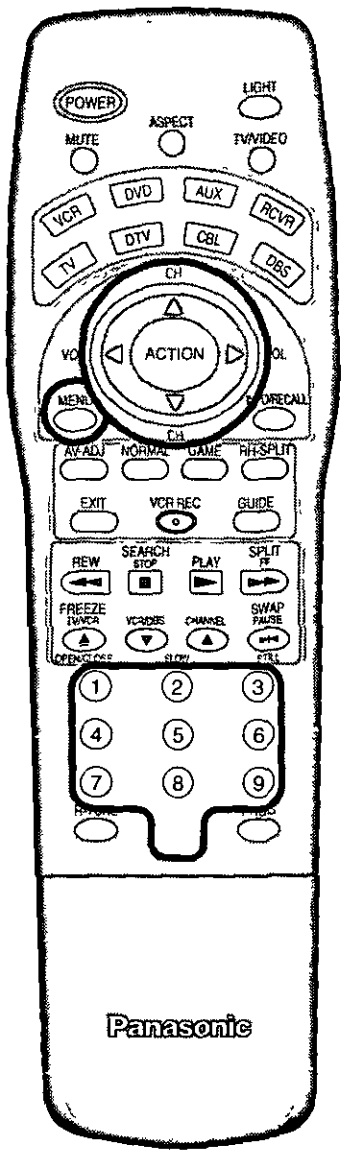
OFF ↔ C1 ↔ C2 ↔ T1 ↔ T2 ↔ C3 ↔ C4 ↔ T3 ↔ T4

- **CAPTION OFF** - Recommended mode when Closed Caption is not being used
- **CAPTION C1** - For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture)
- **CAPTION C2** - Another mode used for video related information
- **TEXT T1** - Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted
- **TEXT T2** - Another mode which displays information and blanks out a large portion of the picture on the television screen
- **CAPTION C3** - Another mode used for video related information
- **CAPTION C4** - Another mode used for video related information
- **TEXT T3** - Another mode which displays information and blanks out a large portion of the picture on the television screen
- **TEXT T4** - Another mode which displays information and blanks out a large portion of the picture on the television screen

- To end adjustments → MENU — Press MENU button

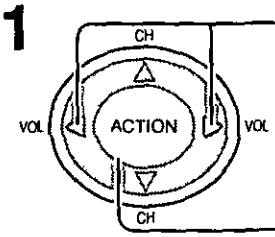
Lock Feature

In the United States and Canada, the V-CHIP consists of two rating systems, which are MPAA (MOTION PICTURE) and TV PARENTAL GUIDELINES. Its function is to block programs by the rating data in the XDS data packets sent from broadcasting stations. The user can select which rating programs should be blocked by using the LOCK MENU options.



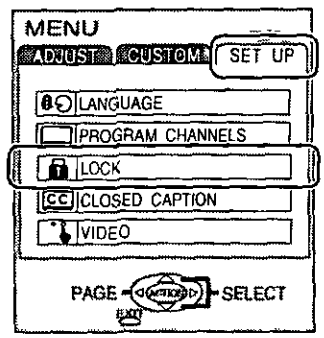
Press the MENU button to display the MENU screen and select SETUP

1

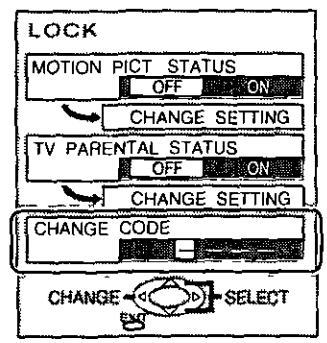


Press to select LOCK

Press to display the LOCK screen

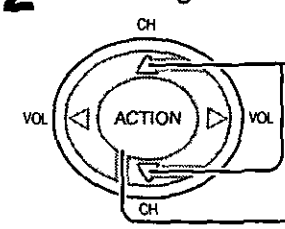


Input code
Enter any 4-digit number as a password
These numbers will be needed when deactivating the LOCK function



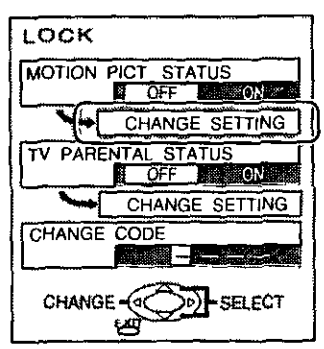
Note:
Use a code that is easy to remember or record it in a safe place

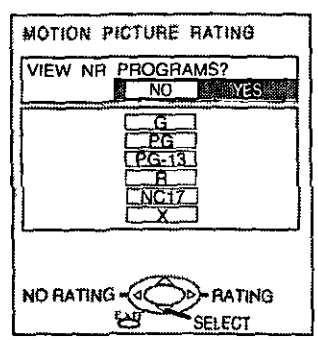
2 Selecting broadcasts to lock



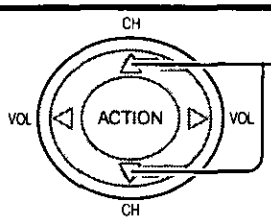
Press to select CHANGE SETTING (the menu following MOTION PICT STATUS)

Press to display the MOTION PICTURE RATING screen

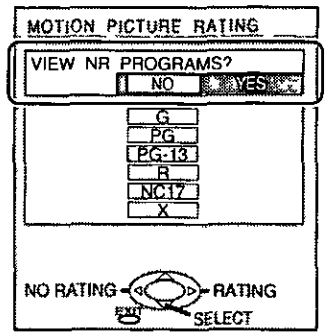


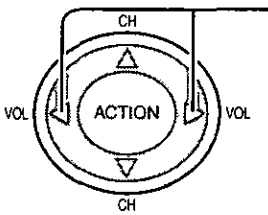


3



Press to select rating to lock





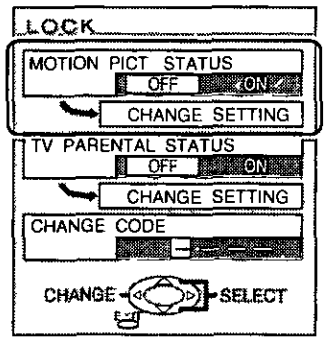
Press to select YES or NO

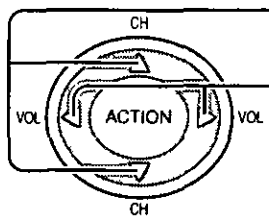
Rating (turns red when on)
G General audience
PG Parental guidance suggested
PG-13 Parental guidance needed under 13 years old
R Restricted
NC17 No one under 17 is admitted
X Pornography

EXIT

Press to return to LOCK screen

4 Setting MOTION PICT STATUS
Locking and unlocking the ratings selected above





Press to select MOTION PICT STATUS

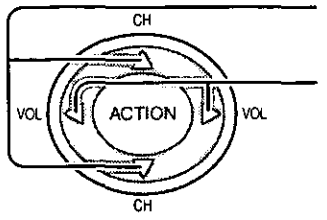
Press to select ON or OFF

ON The broadcasts selected in the MOTION PICTURE RATING menu cannot be viewed
OFF LOCK is deactivated and any broadcast, regardless of the setting for MOTION PICTURE RATING, can be viewed

MENU

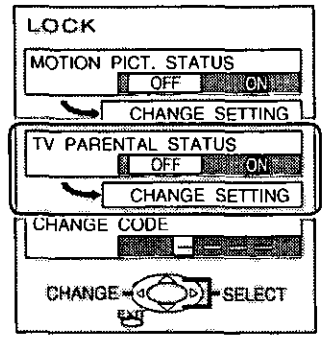
Press to set

TV PARENTAL STATUS

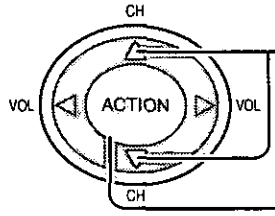


Press to select TV PARENTAL STATUS.

Press to select ON or OFF.

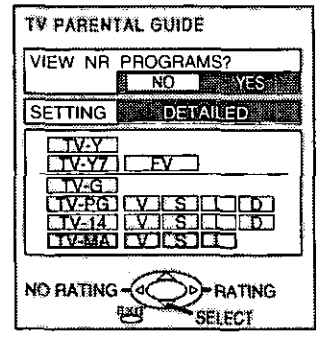


Changing setting



Press to select CHANGING SETTING.

Press to display the TV PARENTAL GUIDE screen.



Setting the TV PARENTAL PROGRAMS screen

VIEW NR PROGRAMS?

NO : The broadcasts selected in the MOTION PICTURE RATING menu cannot be viewed.

YES: LOCK is deactivated and any broadcast, regardless of the setting for MOTION PICTURE RATING, can be viewed.

SETTING

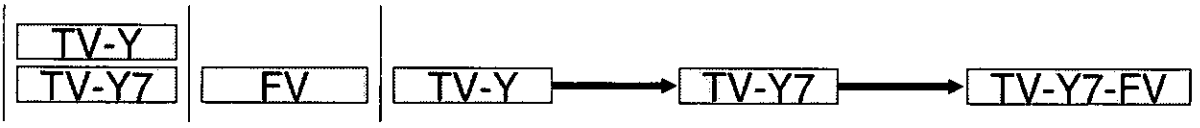
BASIC: The up ▲ and down ▼ buttons change the selected title.

DETAILED: The cursor selecting the title can be moved to select options displayed on the right. The down ▼ button moves the cursor to the right if options are available. The up ▲ button moves the cursor to the left and if there are no options to the left, the cursor will move up.

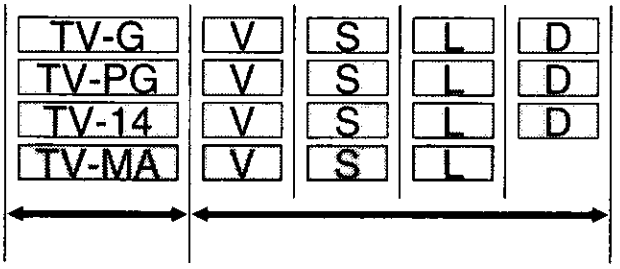
Locking and unlocking

- When a title field is selected, all ratings below this rating are selected.
- When options within an option field are selected, ratings below this rating within the same field are selected.
- Ratings displayed in green are unlocked and those displayed in red are blocked programs.

1. Ratings for children: These ratings are divided into ranks as follows.



2. Ratings for teenagers: These ratings are the same as the matrix system. This system is described in the diagram below.
   Ratings for all ages are on top and ratings for adults are on the bottom.



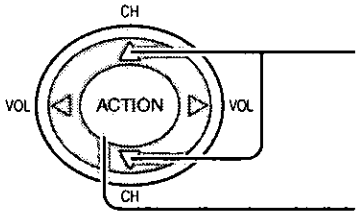
- To end adjustments → MENU Press MENU button.

Customizing the VIDEO INPUT labels

Display for each VIDEO INPUT can be changed to match with the connected device (VCR, video games).

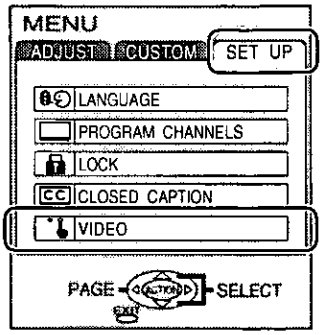
Example: When changing VIDEO 3 to LD.

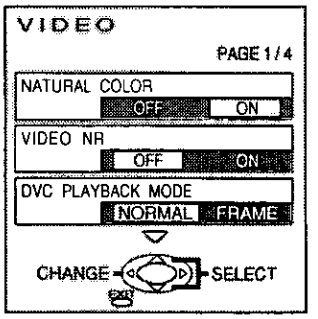
1 Press the MENU button to display the MENU screen and select SETUP.



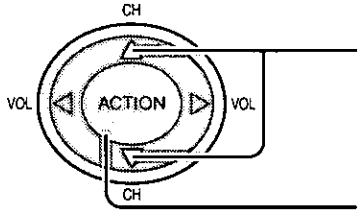
Press to select VIDEO.

Press to display the VIDEO screen.



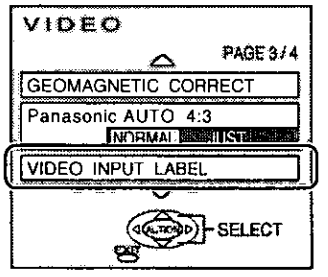


2



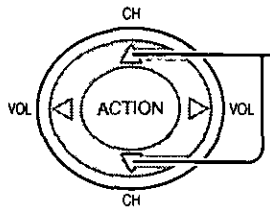
Press to select VIDEO INPUT LABEL.

Press to display the VIDEO INPUT LABEL screen.

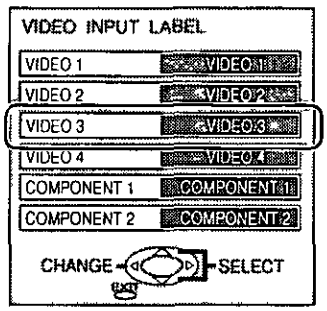


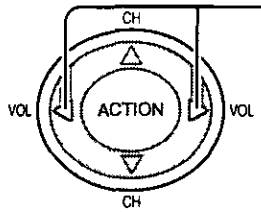
Note:
The VIDEO screen consists of 4 pages.
Use the up ▲ and down ▼ buttons to change pages.

3

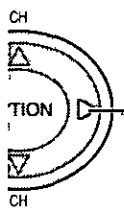


Press to select VIDEO INPUT to change

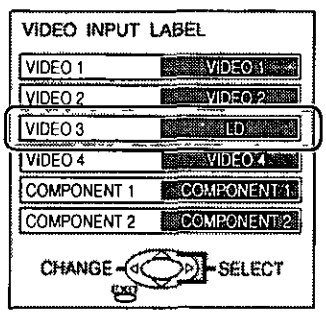


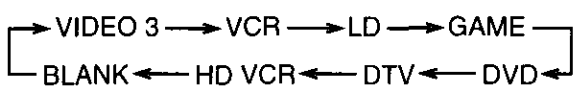


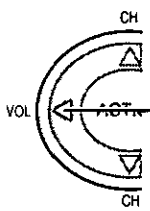
Press to change



By pressing this button, display changes as follows







By pressing this button, display changes in reverse

MENU

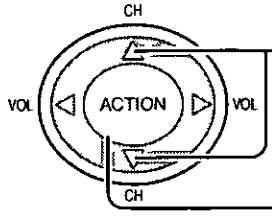
Press to exit menu

Note

When DVD or DTV is selected for the change, images are adjusted to match each input signal

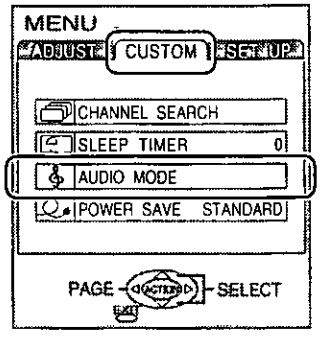
Selecting STEREO/SAP/MONO

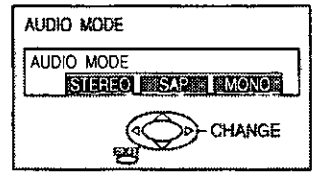
Press the MENU button to display the MENU screen and select CUSTOM

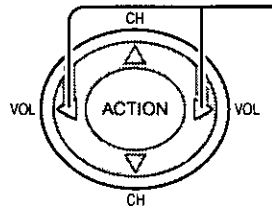


Press to select AUDIO MODE

Press to display the AUDIO MODE screen







Press to select STEREO/SAP/MONO

Red display - With signal
White display - No signal

MENU

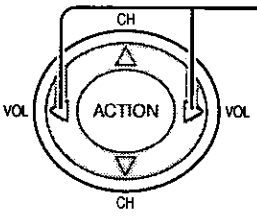
Press to exit menu

Helpful Hints:
● **STEREO** - Two channel Audio reception ● **SAP** - Second Audio Programming (typically used for bilingual audio) ● **MONO** - Use when stereo signal is weak

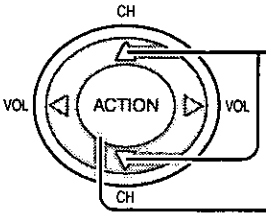
Using the off-timer

1

Press the MENU button to display the MENU screen.

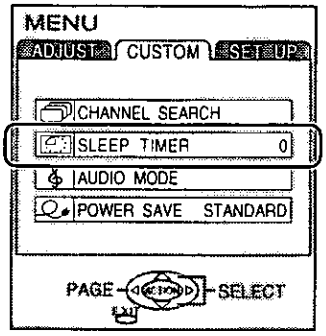
2 

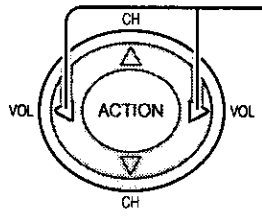
Press the left " ◀ " or right " ▶ " button to select CUSTOM.

3 

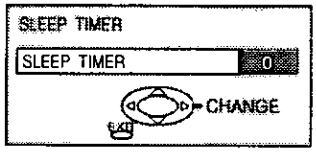
Press the up " ▲ " or down " ▼ " button to select SLEEP TIMER.

Press to displayed SLEEP TIMER adjust screen.



4 

Press the left " ◀ " or right " ▶ " button and select the desired sleep time from 0 → 30 → 60 → 90 minutes to select times.



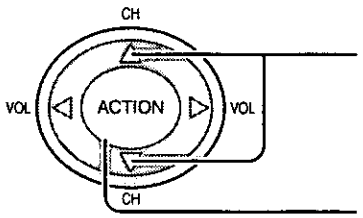
Notes:

- When the power to the TV set is disrupted due to a power outage or similar problem, after power is restored, the off-timer will be deactivated and the TV will be in standby mode.
- To see the remaining sleep time, press the INFO/RECALL button.

Viewing with reduced brightness (POWER SAVE)

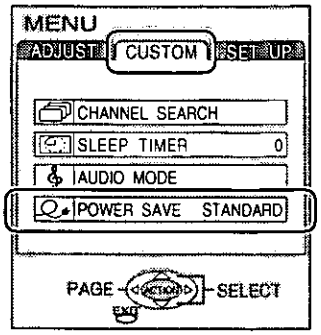
Selecting the POWER SAVE menu

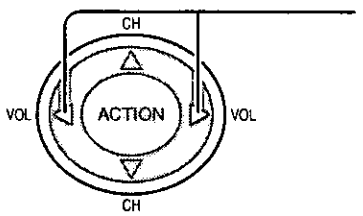
Press the MENU button to display the MENU screen and select CUSTOM.



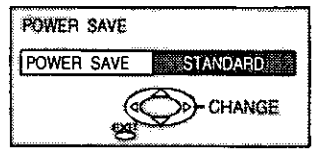
Press to select POWER SAVE.

Press to display the POWER SAVE screen.





Press to select STANDARD or SAVING.



MENU

Press to exit menu.

POWER SAVE SAVING

By reducing the brightness of the brightest scenes, a natural image is achieved and reduces power consumption at the same time.

POWER SAVE STANDARD

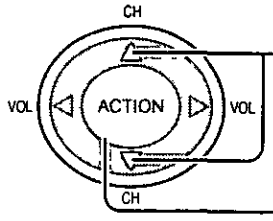
Viewing in the selected PICTURE menu setting or in your preferred brightness level is possible.

Notes:

- When CINEMA or GAME mode is selected for the image menu, POWER SAVE does not function.
- The setting for POWER SAVE is set even when the TV is turned off .

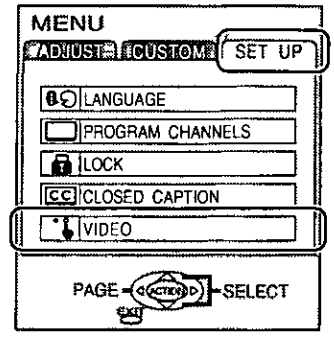
Video game player to VIDEO INPUT

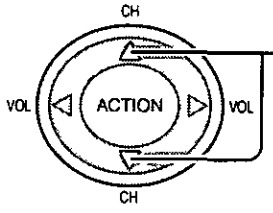
1 Press the MENU button to display the MENU screen and select SETUP



Press to select VIDEO

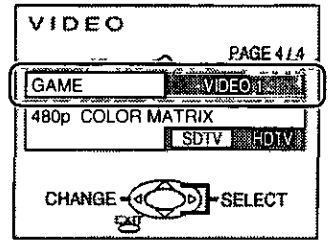
Press to display the VIDEO screen



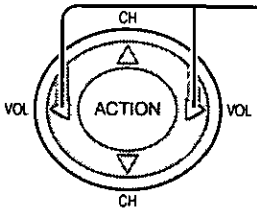


Press to select GAME
Changing the video game player input terminal

Note.
Use the up ▲ and down ▼ buttons to change pages

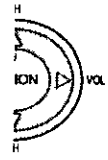


2

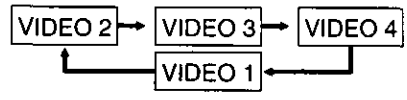


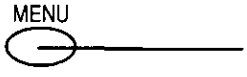
Press to set

Ex When VIDEO INPUT 2 is selected



The modes will change as follows





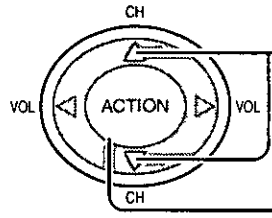
Press to exit menu

Note:
Default is set for VIDEO INPUT 4 which is located on the front of the TV set

Optimizing display for DVC recording mode (DVC PLAYBACK MODE)

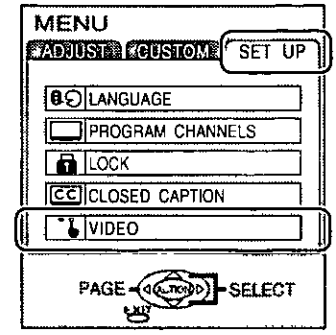
When digital video camera recording is in FRAME, images will have high resolution.

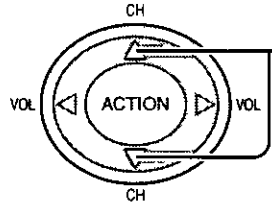
1 Press the MENU button to display the MENU screen and select SETUP



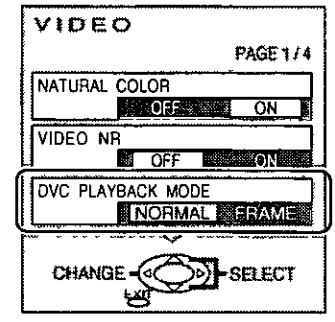
Press to select VIDEO

Press to display the VIDEO screen

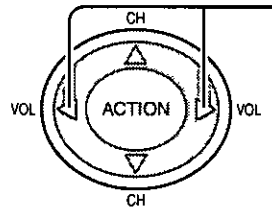




Press to select DVC PLAYBACK MODE



2



Press to set

NORMAL When playing normal images
FRAME When displaying FRAME recording mode

MENU

Press to exit menu

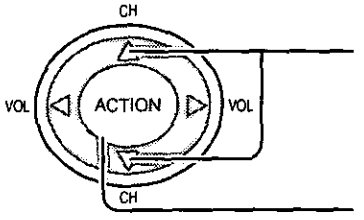
Note

- Switches only during VIDEO INPUT 1-4 or GAME modes
- If normal images are viewed in FRAME mode, moving pictures may appear awkward Switch to NORMAL
- The VIDEO screen consists of 4 pages
- Use the up ▲ and down ▼ buttons to change pages

Adjusting unnatural video images (3D Y/C FILTER)

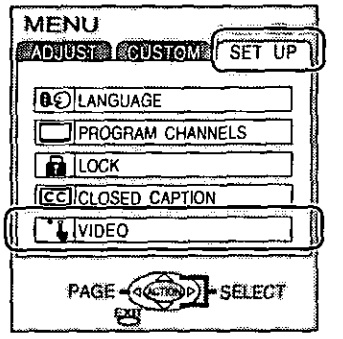
Selecting the VIDEO menu

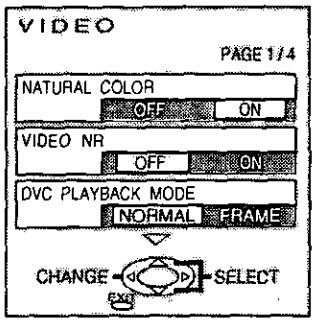
Press the MENU button to display the MENU screen and select SETUP.

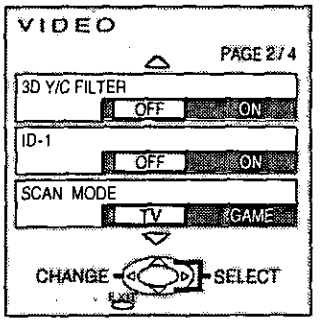


Press to select VIDEO.

Press to display the VIDEO screen.

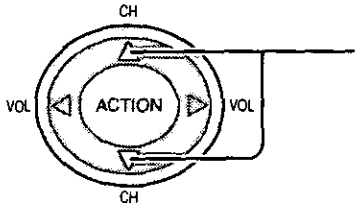




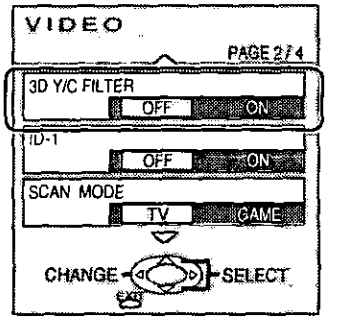


Switching to 3D Y/C FILTER

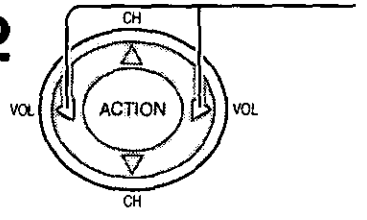
1



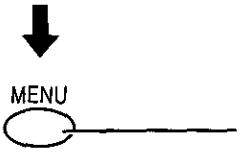
Press to select 3D Y/C FILTER.



2



Press to set ON / OFF.



Press to exit menu.

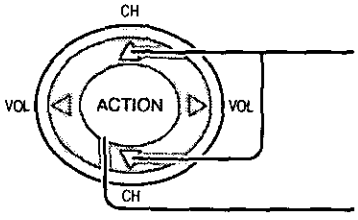
Notes:

- The VIDEO menu is made up of 4 pages.
  Use the up ▲ and down ▼ buttons to change pages.
- Not available for COMPONENT VIDEO 1-2.

Automatically changing screen size for VIDEO INPUT modes

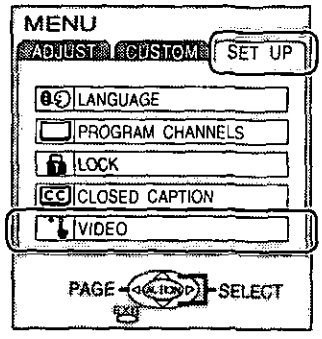
If the received signal contains screen size specifications in VIDEO INPUT (1-4) or COMPONENT VIDEO INPUT (1-2), the screen size is automatically changed.

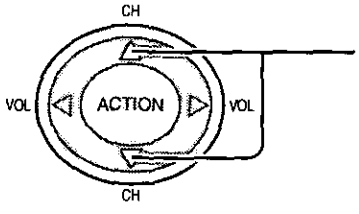
1 Press the MENU button to display the MENU screen and select SETUP.



Press to select VIDEO.

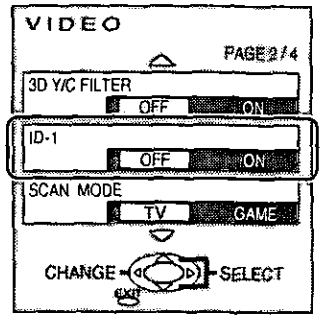
Press to display the VIDEO screen.



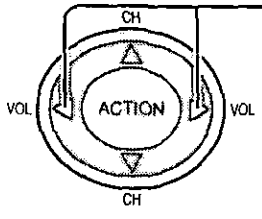


Press to select ID-1 (Image Detection).

Note:
Use the up ▲ and down ▼ buttons to change pages.

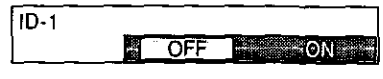


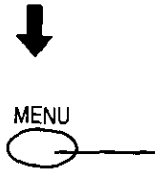
2

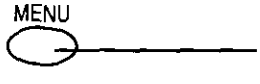


Press to set.

ON : When screen size specification signals are detected, screen size is automatically changed.
OFF: The screen size is not automatically changed. (Turn OFF if this function does not operate properly.)







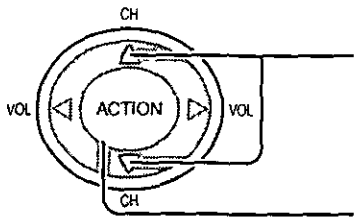
Press to exit menu.

Notes:
- When ID-1 is detected and the screen size is changed, FULL or WIDE will be displayed.
- When displaying a split screen, ID-1 is not detected.

Cancelling automatic enlarging of screen

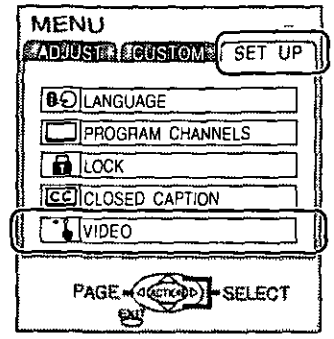
Used for viewing 4:3 images in Panasonic auto mode. (See page 22)

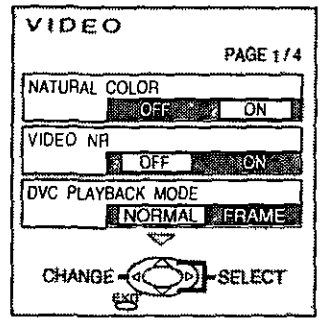
1 Press the MENU button to display the MENU screen and select SETUP



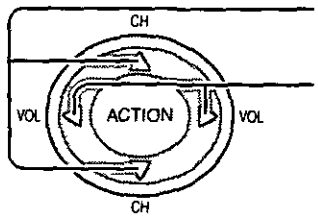
Press to select VIDEO

Press to display the VIDEO screen,



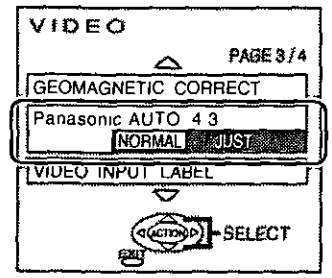


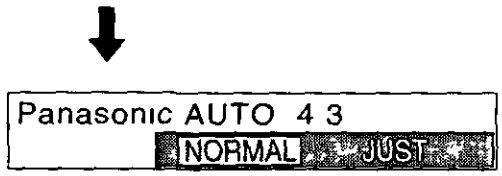
2



Press to display PAGE 3/4 and select Panasonic AUTO

Press to select NORMAL





Displays NORMAL screen for 4 3 images
Displays JUST screen for 4 3 images

MENU

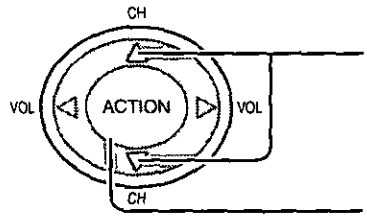
Press to exit menu

Note.
The VIDEO screen consists of 4 pages
Use the up ▲ and down ▼ buttons to change pages

Setting when 480p signals (sequential scan) are input through COMPONENT VIDEO INPUT

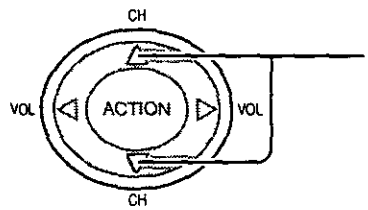
Displays input signals (480p signals) in a natural color from digital equipment adaptors connected to COMPONENT VIDEO INPUT (Y, P_b/C_b ,P_r/C_r input terminals).

1 Press the MENU button to display the MENU screen and select SETUP



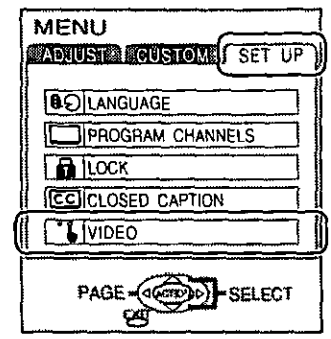
Press to select VIDEO

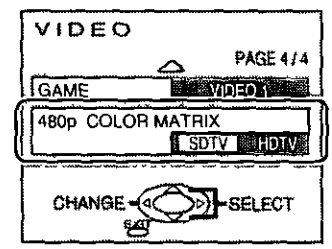
Press to display the VIDEO screen



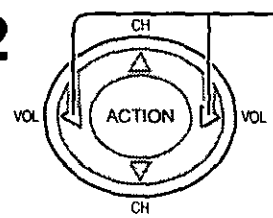
Press to select 480p COLOR MATRIX

Note·
Use the up ▲ and down ▼ buttons to change pages



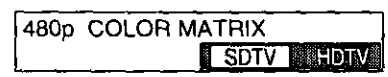


2



Press to set

SDTV When the input signal is a normal TV system (NTSC)
HDTV . When the input signal is a Hi-Definition system (HD)



MENU

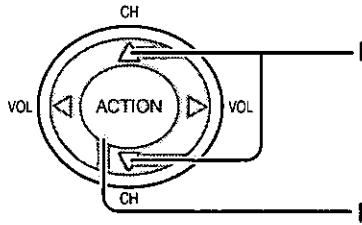
Press to end

Note.
480p COLOR MATRIX does not need to be set when using Hi-Definition equipment or 480i output equipment

Geomagnetic correction (Adjusting skewing of images)

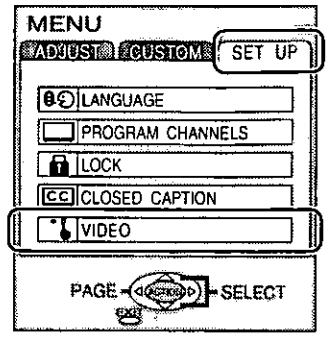
This correction is made when moving the TV set or when image is slightly skewing.

1 Press the MENU button to display the MENU screen and select SETUP.

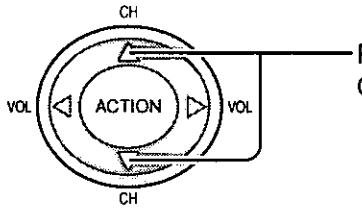


Press to select VIDEO.

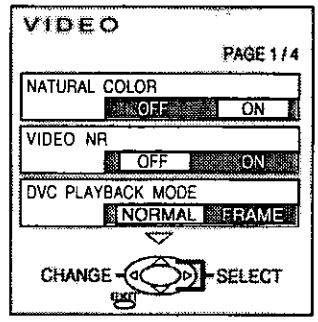
Press to display the VIDEO screen.

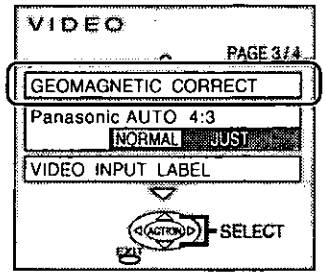


2

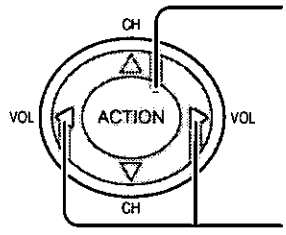


Press to display PAGE 3/4 and select GEOMAGNETIC CORRECT.





3

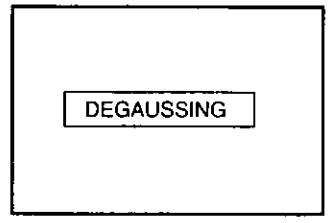


Press to display the GEOMAGNETIC CORRECT screen.

Adjust so that the bar is horizontal.

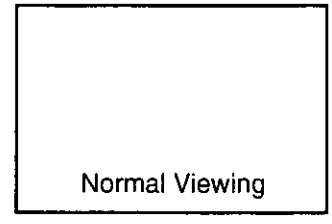
MENU

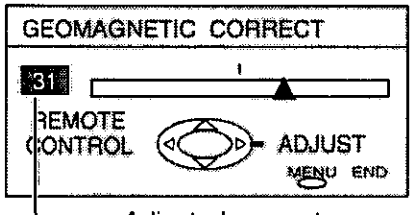
Press to end.



- The "DEGAUSSING" message is displayed after a clicking sound is heard. (The screen will be distored momentarily.)
- The display will disappear and another clicking sound will be heard. (End of adjustment)

Approx. 5 seconds later





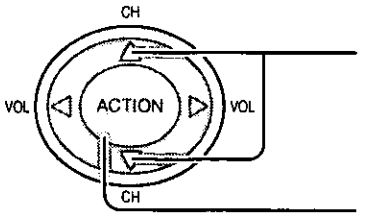
Adjusted amount

Screen direction	Approximate adjusting amount
North	approx. 10
East/West	approx. 31
South	approx. 50

Note:
The VIDEO screen consists of 4 pages.

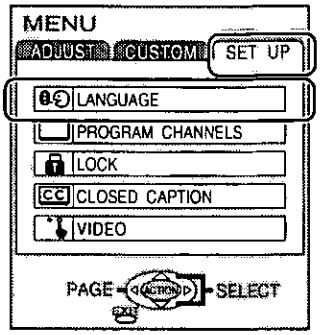
Switching languages for display

1 Press the MENU button to display the MENU screen and select SETUP.

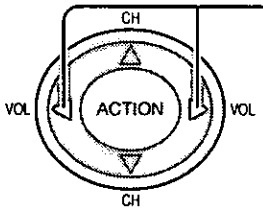


Press to select LANGUAGE.

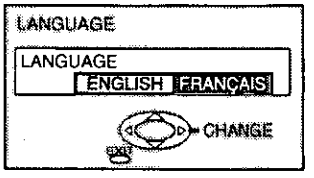
Press to display the LANGUAGE screen.



2



Press to select preferred language.



MENU

Press to exit menu.

Operating peripheral equipment using the remote control

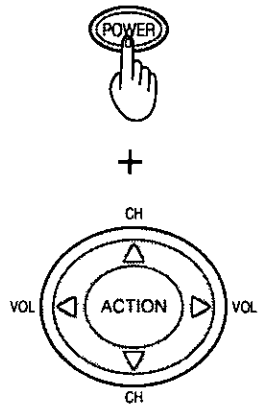
Programming The Illuminated Remote Control Using Access Codes

The remote control can be preset for other manufacturers, by utilizing the **REMOTE MODE SELECTION BUTTONS** for **CABLE, DTV, VCR, RCVR** (a **Receiver** or **Amplifier**), **DVD** (**DVD, CD, LD**) ,**DBS** and **AUX** (for **Cassette Player** or a **VCR2**)

(Details on remote control buttons to operate peripheral equipment → See page 61 to 63 and 64 to 66)

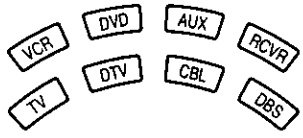
1 Setting up the remote using the numerical keys **(When the code is known)**

1



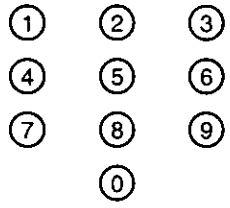
Press and hold the POWER and ACTION keys simultaneously for three full seconds
After 3 seconds, all the illuminated mode keys will begin to flash
Release the POWER and ACTION keys

2



Press the desired mode key
The mode key will illuminate steadily, all others will go out

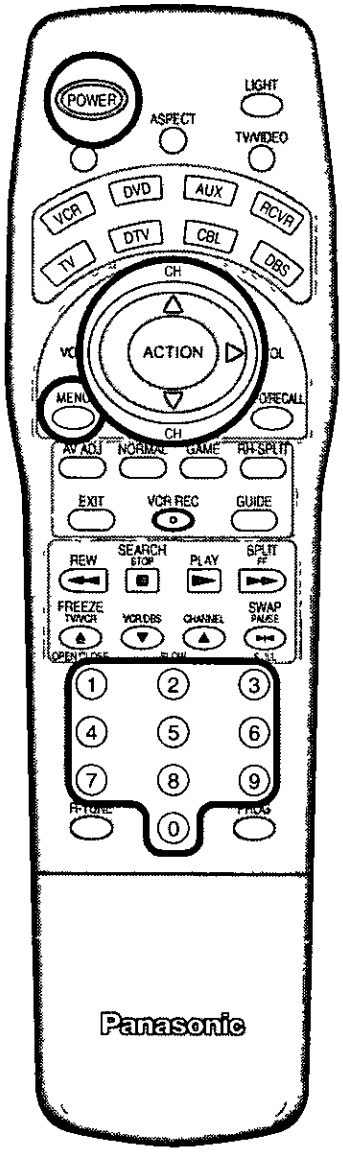
3



Enter the three digit set up code, by using the Remote Control Keyboard
If the correct code is entered, the mode key will blink twice and then go out
Now your remote is set for this code

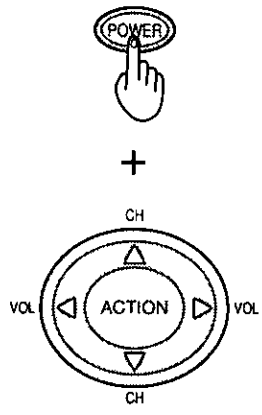
Note:
If an incorrect number is entered (or there is an incomplete entry after 30 seconds), the key illumination goes out (no blink) and the settings are unchanged

Device	Operate	Default
TV	TV (Only Panasonic)	Panasonic Code
VCR	VCR (Preset)	Panasonic Code
CBL	Cable Boxes (Preset)	Panasonic Code
DBS	DBS Boxes (Preset)	Panasonic Code
RCVR	RCVR (Preset)	Technics Code
AUX	Cassette Players, VCR2 (Preset)	Technics Cassette Players Code
DVD	DVD & LD & CD Player (Preset)	Panasonic DVD Code
DTV	STB (Only Panasonic)	Panasonic Code



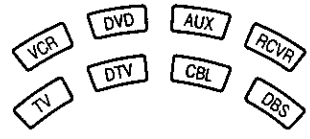
2 Setting to the remote using the step and set method
(When the code is not known)

1



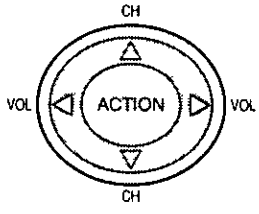
Press and hold the POWER and ACTION keys simultaneously for three full seconds
After 3 seconds, all the illuminated mode keys will begin to flash
Release the POWER and ACTION key

2



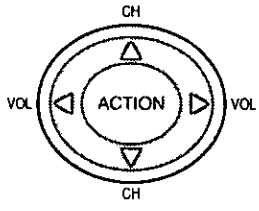
Press the mode key
The mode key will illuminate steadily, all others will go out

3



Press VOL " ▶ " key to step to the next code
Press POWER to send a test signal in that format
Continue doing this until the proper device code is found, and the target device responds

4



Once the code has been found, press the ACTION key to lock it in

Notes.

- The step and set mode will start from the current device (not the beginning of the list, except for the first time)
- The step and set mode works in the reverse direction using the VOL " ◀ " key

Infrared Remote Codes for Specific Components

Helpful Hint Write down the code numbers for your components in the space provided below This will serve as a handy reference whenever you need to reprogram your remote control

CABLE Cable Box	**VCR** Video Cassette Recorder	**CD** Compact Disc Player
DBS Digital Broadcast System	**RCVR** Receiver or Amplifier	**LD** Laser Disc Player
Other Component	Other Component	Other Component
Other Component	Other Component	Other Component

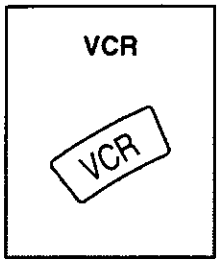
Infrared Codes Index

The remote control is capable of operating many brands of peripheral equipment. Refer to pages 61 and 62 for programming procedures.

Note: The remote control memory is limited and therefore some models may not operate. The remote control is not designed to control all features available in all models.

Note: After entering the proper infrared code, press the desired Mode Selection Button on the remote control. Refer to pages 16 and 66 to 68, for details on operating peripheral equipment using the remote control.

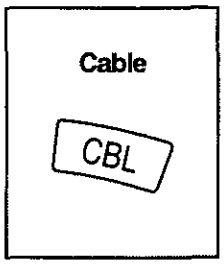
VCR Infrared Codes Index



Maker List (VCR)

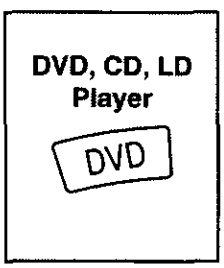
Maker	Set Up No.	Maker	Set Up No.
ADMIRAL	200	PENTAX	000, 011, 300
AIWA	137, 160	PHILCO	150, 130, 137, 125
AKAI	142, 014, 015, 016		136, 081
AUDIO DYNAMIC	240, 011	PHILIPS	150, 125, 130
BELL & HOWELL	005, 013	PIONEER	125
BROKSONIC	081, 136	PROSCAN	300, 000, 125, 130
CANON	125, 135		150, 310, 001, 002
CITIZEN	006	QUASAR	100, 101, 125, 130
CRAIG	005, 141, 006	RADIO SHACK	170, 130, 005, 210
CURTIS MATHES	300, 130, 137		009, 241, 137
DAEWOO	250, 001, 130	RCA	170, 300, 000, 125
DBX	240, 010, 011		130, 150, 310, 001
DIMENSIA	300		002
EMERSON	250, 136, 080, 003	REALISTIC	130, 005, 210, 009
	135, 243, 081		241, 137
FISHER	005, 008, 009, 007	SAMSUNG	220, 002, 004
FUNAI	137, 136, 081	SANSUI	240, 136, 081, 520
GE	170, 300, 130	SANYO	005, 009
GO VIDEO	220, 512	SCOTT	001, 002, 004, 009
GOLDSTAR	006		230, 241, 330, 340
HITACHI	125, 300, 000		136, 081
INSTANT REPLAY	130, 125	SEARS	005, 006, 007, 008
JENSEN	240		000
JVC	240, 010, 011, 190	SHINTOM	050
KENWOOD	240,,010, 006, 011	SHARP	200, 210
LXI	137, 006, 000, 007	SIGNATURE 2000	137, 200
	008, 005, 009	SINGER	050
MAGNAVOX	150, 125, 130	SONY	140, 141, 142
MARANTZ	240, 010, 011	SV2000	137
MARTA	006	SYLVANIA	150, 125, 130, 137
MEMOREX	130, 009	SYMPHONIC	137
MGA	230, 241, 330, 340	TASHIRO	006
	242, 243	TATUNG	240, 010, 011
MINOLTA	000, 300	TEAC	240, 010, 137, 011
MITSUBISHI	230, 241, 330, 340	TECHNICS	100, 101, 125, 130
	242, 243	TEKNIKA	130, 137
MULTITECH	330, 137, 004	TOSHIBA	001, 310
NEC	240, 010, 011, 190	VECTOR RESEARCH	011
OLYMPIC	130, 125	WARDS	200, 210, 009, 290
OPTIMUS	140, 100, 200, 006		006
ORION	136, 081	YAMAHA	005, 240, 010, 011
PANASONIC	125, 130, 100, 101	ZENITH	290
PENNEY	130, 000, 300, 005,		
	240, 010, 011		

CABLE CONVERTER BOX AND DVD, CD, LD PLAYERS Infrared Codes Index



Maker List (CBL)

Maker	Set Up No	Maker	Set Up No
ABC	530	PULSAR	005, 544
ARCHER	544, 531	PUSER	544
CABLEVIEW	005, 544	REALISTIC	544
CITIZEN	522, 005	REGAL	130, 350, 720, 730
CURTIS	130, 131		731, 900
DIAMOND	530, 544, 531	REGENCY	560
EAGLE	541	REMBRANT	702, 544, 005
EASTERN	560	SAMSUNG	005
GCBRAND	544, 005	SCIENTIFIC ATLANTA	122, 130, 131
GEMINI	522	SLMARK	005, 001
GENERAL INSTRUMENT/JERROLD	360, 530, 531, 532	SPRUCER	005, 121
	533, 520, 521, 522	STARGATE	544, 005
	122	TELEVIEW	001, 005
HAMLIN	720, 730, 731, 900	TEXSCAN	810
	350, 130	TOCOM	700, 701
HITACHI	003, 530	TOSHIBA	004
MACOM	003, 004, 005	UNIKA	544, 531
MEMOREX	542	UNIVERSAL	522, 544
MOVIETIME	544, 005	VIDEOWAY	006
OAK	710, 702, 002	VIEWSTAR	541, 542
PANASONIC	120, 121, 132	ZENITH	280, 000
PHILIPS	541, 542, 006	ZENITH/DRAKE SATELLITE	000
PIONEER	001, 260		



Maker List (DVD)

Maker	Set Up No	Maker	Set Up No.
DENON	100	RCA	110
FERGUSON	110	SABA	110
NORDMENDE	110	SONY	140
MITSUBISHI	150	THOMSON	110
PANASONIC	100	TOSHIBA	130
PIONEER	120	YAMAHA	100

Maker List (LD)

Maker	Set Up No
PANASONIC	200, 201 235, 380
PIONEER	370
SONY	240, 241, 242, 243

Maker List (CD)

Maker	Set Up No.	Maker	Set Up No
CARVER	550	PHILIPS	550
DENON	600	PIONEER	430
FISHER	405	QUASAR	501, 530, 500
HARMAN/KARON	459, 460, 462	SANYO	405
JVC	590, 591, 670	SHARP	600
KENWOOD	400, 401, 450, 670	SHERWOOD	459
MAGNAVOX	550	SONY	540
MARANTZ	550	TECHNICS	530, 500, 501
MCINTOSH	460	VICTOR	590, 591, 670
OPTIMUS	430, 459	YAMAHA	402, 403, 404
PANASONIC	500, 501, 530		

CASSETTE PLAYERS, RECEIVERS, AMPLIFIERS, and DBS Infrared Codes Index

Cassette Players

Maker List (TAPE)

Maker	Set Up No.	Maker	Set Up No.
PANASONIC	700, 730	TECHNICS	700, 730

Receiver Amplifiers

Maker List (RCVR)

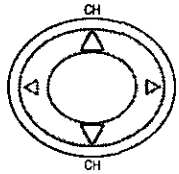
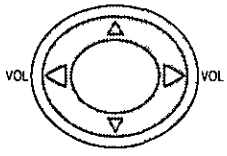
Maker	Set Up No.	Maker	Set Up No.
ADMIRAL	110	PANASONIC	101, 100, 130
AIWA	160, 161	PHILIPS	150
DENON	200, 201, 202	PIONEER	030, 032
FISHER	004	QUASAR	101, 100, 130
GARRARD	055	RCA	003, 030, 162, 171
HARMAN / KARDON	057, 150		170
JENSEN	164	SANSUI	003, 053, 320
JVC	190, 191	SHARP	200, 203
KENWOOD	000, 050	SONY	140
MEGNAVOX	162	SOUND DESIGN	220
MARANTZ	151	TEAC	054, 055, 053
MCINTOSH	058	TECHNICS	130, 100, 101
NAKAMICHI	031	VICTOR	190, 191
ONKYO	051, 056	YAMAHA	001, 002
OPTIMUS	003, 162, 171, 170		

DBS

Maker List (DBS)

Maker	Set Up No.	Maker	Set Up No.
ECHOSTAR	110	PRIMESTAR	391
G.E.	170	RCA	170
HNS (HITACHI)	050	SONY	390
PANASONIC	100	TOSHIBA	000
PHILIPS	001, 002	UNIDEN	001, 002

Remote Control
Quick Reference Functional Key Control

KEY	MODE	FUNCTION
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⓪	TV, DTV, VCR AUX (VCR2) CABLE, DBS	Select Channel
	RCVR (Receiver/Amplifier)	1 Selects Video 1 2 Selects Video 2 3 Selects Video 3 4 Selects Video 4 5 Selects CD 6 Selects Tuner 7 Selects Phone 8 Selects Tape 9 Selects AUX
	DVD (DVD, CD, LD)	Selects Track Number
TV/VIDEO	TV	Selects TV Input Mode
POWER	ALL COMPONENTS	Turns On and Off Select Components
MUTE	TV, VCR, DBS, DTV CABLE DVD RCVR (Receiver/Amplifier) AUX (Cassette)	Mutes TV Sound Mutes Cable Sound Mutes TV / RCVR Sound Mutes Audio RCVR Mute
TV	TV	TV Mode Selection for Remote Control
CBL	CABLE	Cable Mode Selection for Remote Control
DBS	DBS	DBS Mode Selection for Remote Control
VCR	VCR	VCR Mode Selection for Remote Control
RCVR	Receiver / Amplifier	Receiver / Amplifier Mode Selection for Remote Control
DVD	Digital Video Disc	DVD (DVD, CD, LD) Mode Selection for Remote Control
AUX	Cassette Tape Player, VCR2	AUX Mode Selection for Remote Control Enables User to Operate a Tape Cassette Player, or VCR2
	TV VCR CABLE DBS DVD (DVD) DVD (CD) DVD (LD) RCVR	TV Channel Up/Down VCR Channel Up/Down Channel Up/Down Channel Up/Down, Navigation Up/Down Navigation Up/Down Next Track/Previous Track Next Chapter/Previous Chapter Tuner +/Tuner –
	TV, VCR CABLE DBS DVD (DVD) DVD (CD) DVD (LD) RCVR	TV Volume Up/Down Cable Volume Up/Down Audio Track +/–, Navigation Right/Left Navigation Right/Left RCVR Volume Up/Down TV Volume Up/Down RCVR Volume Up/Down

Remote Control
Quick Reference Functional Key Control

KEY	MODE	FUNCTION
R-TUNE	TV	Selects Previously Tuned Channel
	CABLE	Selects Previously Tuned Channel
	DBS	Selects Previously Tuned Channel
	DVD (DVD)	Selects Previous Title
	DVD (CD)	Selects Next Disc
	DVD (LD)	Side A / B
	DTV	Prev. Ch
	AUX (Tape Cassette Player)	Selects Tape Cassette Player A or B
ACTION	TV	Activities TV Menus
	CABLE	Enter
	DBS	DBS Action
	DTV	STB Action
	DVD	Select
INFO/RECALL	TV, CBL	Display Information (Channel, Time, Audio Mode, Power Save Mode)
	VCR	Display Current VCR Settings
	DBS	Display Current DBS Settings
	DTV	Display Current DTV Settings
	DVD (DVD)	Display Current DVD Settings
	DVD (CD)	Display Time format
	DVD (LD)	Display Current LD Settings
REW	VCR	VCR REW
	DVD (DVD, LD)	Skip Search <<
	DVD (CD)	Search REW
	RCVR	Surround –
	AUX (Tape Cassette Player)	Tape REW
SPLIT FF	TV	SPLIT ON/OFF
	VCR	VCR FF
	DVD (DVD, LD)	Skip Search >>
	DVD (CD)	Search FF
	RCVR	Surround +
	AUX (Tape Cassette Player)	Tape FF
PLAY	VCR	VCR Play
	DVD (DVD, CD, LD)	Play
	AUX (Tape Cassette Player)	Tape Play
SEARCH STOP	TV	SPLIT Search
	VCR	VCR Stop
	DVD (DVD, CD, LD)	Stop
	AUX (Tape Cassette Player)	Tape Stop
VCR REC	VCR, CABLE	VCR Record
	DBS	DBS Record
	DTV	Info (EPG)
	AUX (Tape Cassette Player)	Tape Record
SWAP PAUSE STILL	TV	SPLIT Swap
	VCR	VCR Pause
	DVD (DVD, LD)	Still
	DVD (CD)	Pause
	AUX (Tape Cassette Player)	Tape Pause
FREEZE TV/VCR OPEN/CLOSE	TV	SPLIT Freeze
	VCR	TV/VCR Switch
	DVD (DVD, CD, LD)	Open/Close
	AUX (Tape Cassette Player)	Tape Open/Close

Remote Control
Quick Reference Functional Key Control

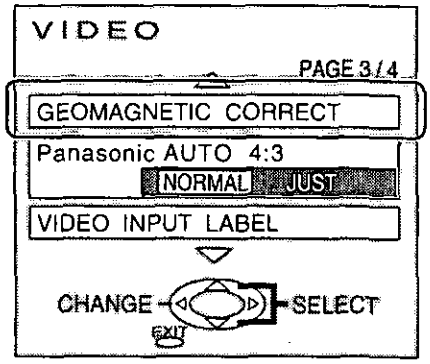
KEY	MODE	FUNCTION
ASPECT	TV DBS DTV (STB)	TV Aspect DBS Aspect STB Aspect
CHANNEL ▲	VCR CABLE DBS DVD (DVD) DVD (CD) DVD (LD) RCVR	VCR Channel Up TV Channel Up DBS Channel Up Slow + Repeat LD Side A Center +
VCR/DBS ▼	VCR CABLE DBS DVD (DVD) DVD (CD) DVD (LD) RCVR	VCR Channel Down TV Channel Down DBS Channel Down Slow – Random LD Side B Center –
AV-ADJ	TV	AV-Adjust
NORMAL	TV	NORMAL
GAME	TV DBS DVD RCVR	Game DBS Page Down Skip – Tuner –
RH-SPLIT	TV DBS DVD RCVR	RH-SPLIT DBS Page Up Skip + Tuner +
EXIT	TV DBS DTV (STB)	Exit from Menu Screen DBS Exit Exit (EPG)
PROG	DBS DTV (STB)	DBS Program STB Program
GUIDE	DBS DTV (STB)	DBS Guide Guide (EPG)
MENU	TV DBS DVD (DVD) DVD (CD) DVD (LD) DTV (STB)	TV Menu DBS Menu DVD Menu STB Menu

Troubleshooting

During normal broadcast (VHF/UHF)

Symptoms	Checks	Page
Power does not turn ON	• Is the power plug plugged in? • If the power does not turn on using the remote, check if the TV set is turned on.	– 17
Remote control does not function	• Are the batteries dead or inserted incorrectly? • Is the remote control sensor in direct light of florescent lamps or other strong sources of light?	7 –
Image shakes Image is not clear Color patches or no color	• Is the antenna or antenna cable old, broken or shorted? • Is the antenna cable connected properly? • When using a VCR and selecting channels on the TV, is the TV/VIDEO mode for the VCR set to TV?	– 8, 9, 10 –
Image appears doubled or tripled.	• Is the antenna facing the right direction? • Is the antenna receiving any signals reflected off mountains or buildings.	– –
Spots appear in images, images shake, or color patches appear in the four corners.	• Is the TV being affected by geomagnetism or other interference (automobiles and trains, high voltage power lines, neon, motors, magnetic steel frames, steel windows, etc.)? Turn off the power for approx. 20 min. and turn back on or change positioning of the TV set. If this does not fix the problem, the TV needs magnetic shielding.	–
When the TV set is turned on in a dark room, the outer edges of the screen spark momentarily.	• Due to the internal structure of the CRT set, some parts of the fluorescent components spark, (created by high voltage) when the TV set is turned on. This is not a malfunction.	–
Unclear or overly bright colors on parts of the screen	• When white is displayed on a certain part of the screen for a while, the white portion tends to tint with color. When the bright image disappears, the screen will return to its normal color.	–
Left and right ends of the screen, columns and frames appear curved.	• Receiving broadcast or changes in brightness on the screen can cause curves on the screen.	–
A black stripe appears for a moment when changing channels using the VCR.	• The image distorts when channels are changed.	–
During Panasonic AUTO mode, the screen size sometimes changes.	• Depending on the program content, even when the screen is supposed to automatically zoom, if the beginning scene is dark, it may take a while for it to zoom. • During a 4:3 screen, if the top and bottom of the image is dark, it may zoom.	22, 23 –
Images disappear at the top and bottom of the screen	• When using 16:9 image software, there is no picture at the top and bottom of the screen (cinema vision size software, etc.).	–
During ZOOM or JUST modes, the image is cut off at the top and bottom.	• Has the screen position been changed? → If so, adjust screen positioning.	32
A clicking and buzzing sound is made when the TV is turned on.	• This is the sound of the Geomagnetic correction function creating a beautiful color picture. This is not a malfunction.	57

During normal broadcast (VHF/UHF)

Symptoms	Checks	Page
Image is skewed	● This could be a geomagnetic effect. (If installed facing south, then image slants down to the right; when facing north, slants down to the left.) Perform geomagnetic correction. 	57
Channel number remains displayed.	● Press the INFO/RECALL button. During VIDEO input, channel number is displayed until an image is displayed.	29
The TV set makes a cracking sound	● If there are no problems with image or sound, it is the sound of the cabinet shrinking due to room temperature changes. This is not a malfunction.	–

Specifications

Power Source		AC 120 V, 60 Hz
Power Consumption		Average use : 177 W (Maximum Current 3.7 A) Stand-by condition : 0.36 W
CRT		30-inch, 16 : 9 aspect ratio
Screen Size		25.95 " (659.1 mm) (W) × 14.59 " (370.7 mm) (H) × 29.77 " (756.2 mm) (diagonal)
Channel Capability-181		VHF-12 : UHF-56 : Cable-125
Sound	**Speaker**	5 Speakers
	Audio Output	21 W [7 W + 7 W + 7 W] (10 % THD)
	Headphones	M3 (3.5 mm) Jack × 2
FEATURES		Two screen display fuctions AFB circuit installation CLOSED CAPTION 3D Y/C FILTER 5 Speakers V-Chip
Accessories Supplied		Remote control Transmitter EUR511162 R6 (AA) Battery × 2
Operating Conditions		Temperature : 34 °F - 104 °F (0 ° – 40 °C) Humidity : 20 % - 80 % (non-condensing)
Connection Terminals		AV INPUT 1- 4 — VIDEO (Phono Jack Type) — 1.0 Vp-p (75 Ω) S-VIDEO (Mini DIN 4-pin) — Y : 1 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω) AUDIO L-R (Phono Jack Type × 2) — 0.5 Vrms AV PROG. OUT — VIDEO (Phono Jack Type) — 1.0 Vp-p (75 Ω) S-VIDEO (Mini DIN 4-pin) — Y : 1 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω) AUDIO L-R (Phono Jack Type × 2) — 0.5 Vrms TO AUDIO AMP — AUDIO L-R (Phono Jack Type × 2) — 0.5 Vrms COMPONENT VIDEO INPUT1-2 — Y — 1.0 Vp-p (including synchronization) P_B / P_R — ± 0.35 Vp-p AUDIO L-R (Phono Jack Type × 2) — 0.5 Vrms
Dimensions (W × D × H)		30.6 " (777 mm) × 21.1 " (535.3 mm) × 22.7 " (576 mm)
Weight (Mass)		128 lb. (58 kg) Net

Note:
Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

Customer' Record

The model number and serial number of this product can be found on its back cover You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes

Model Number CT-30WX50 Serial Number

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